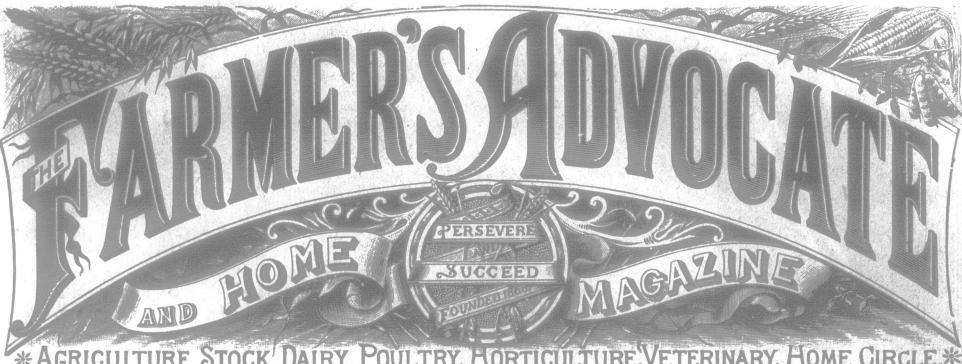
J H G. islalo PUBLISHED EVERY WEEK.



\* AGRICULTURE, STOCK, DAIRY, POULTRY, HORTICULTURE, VETERINARY, HOME CIRCLE.\*

Vol. XXXIX. LONDON, ONTARIO.

JANUARY 14, 1904.

WINNIPEG, MANITOBA.

No. 590

# The Roof

**GETS THE WORST** OF IT.

There's no shelter for it. It shelters the rest from the elements. That's why you need the very best shingles, no matter where else you stint.

# STEEL SHINGLES

are absolutely fire, lightning, rust and leak proof, and easy to apply. They've long since been proved the most reliable, perfect and longest-lasting kind you can find. Try them.

MADE BY

# Metallic Roofing Co. OF TORONTO.

TORONTO. Head Office, Chief Executive Office, MONTREAL.

BRANCHES:

AYLMER HENBALL AMHERSTBURG MARKET BELMONT BRANCH, CLAREMONT OTTAWA CLINTON MARMORA CREDITON MILVERTON MONTREAL DASHWOOD FRELIGHSBURG MONTREAL

NEWMARKET OTTAWA PERTH ST. CATHARINES STIRLING STOUFFVILLE SUTTON, P. Q. WEST END WATERLOO, P.Q. ZURICH

HAVELOCK MT. ALBERT This Bank is fully equipped to transact all business in accordance with modern ideas.
Savings Bank Departments at every Branch. Deposits of \$1 received. Interest paid twice a year. No delay in obtaining money when needed. Interest allowed from date of deposits. No treuble, red-tape or delay.

D.M. STEWART, General Manager.

BRITISH COLUMBIA

Mild climate, the best dairying country in North America. No blizzards. No cylones. No droughts. No hot winds. No summer 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-tenth the price. Write for farm pamphlet to

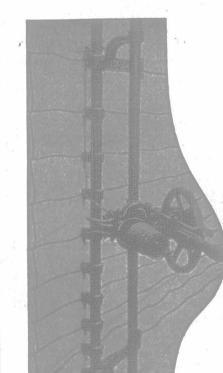
THE SETTLERS' ASSOCIATION,

BOX 540, VANCOUVER, B.C. Per Please refer to this paper.

WRITE FOR

100 Rods, 9-bar

LONDON FENCE.



Best because built on the ground to fit the ground.

Every strand is tightly and properly stretched.

We absolutely guarantee that the labor required in stretching and weaving the 100 rods above, should not under ordinary conditions exceed 4 days, or not over \$5.00.

Buy a London Machine and you can build your fence at times when you can't well do other things, or if necessary hire a man to run—save money and get a better fence.

Description of wire for the 100 rods: Top and bottom wires No. 9, body wires No. 12, all high-grade coiled steel spring wire, and No. 13 wire for stays 12 inches apart (in balls ready for weaving); also brace wire and staples. All delivered at your station (anywhere in old Ontario) for \$24, cash with order, or will ship same, together with a London Fence Machine, one London Safety Pulley Stretcher, complete with rope and London "Perfect" Wire Grip, a London Reel and a pair of Bernard's 64-in. nickel-plated cutting pliers, all freight paid, for \$40, cash with order, or 50c. extra if C. O. D. Ask our agents for particulars, or write us.

# THE LONDON FENCE LIMITED.

LONDON, ONT.

CLEVELAND, OHIO.

S A FEED FOR BEEF CATTLE, SHEEP, ETC., it is unexcelled. A FEED FOR BEEF CATTLE, SHEEP, ETC., it is unexcelled. It is a quick fattener, and in combination with a grain or hay ration it invariably converts old, lean animals into tender, juicy meat. Its highest value, however, is for dairy purposes. As a food for milch cows it is the most profitable and effective article produced to-day. Gives equal or better results than beets, and is much less expensive. Thoroughly evaporated, so that it will keep in any climate. Packed in 100-lb. sacks.

Write for Literature, Prices, etc. For Sale by

H. Breen, Toronto. Quintal & Lynch, Montreal. James Dunlop & Co., Ltd., Hamilton. W. C. Cowan, London.

Dresden Sugar Co., Ltd., Dresden, Ont.

Exp Form dec 15, Q3

6, 8, 9 and 13 foot widths. The favorite rollers for all the row-inces. Write for full description and reasons why reasons why Bissell's are the best. Address om

T. E. BISSELL, Dept. W., Elera, Ont.

Won't buy it, but we will send "FREE" to any address our "Farm Pamphlet," which contains valuable information

British Columbia Farm Lands in the far-famed LOWER FRANER VALLEY, "THE GARDEN SPUT OF CANADA."

f. J. Hart & co., Real Estate Agents, NEW WHITHIRE IN B. O.

NYBODY can make good pictures by the

System — leading, unleading, developing, printing, all by daylight, Better results than the old way, too. ABOLISHED,

Canadian Kodak CO., Limited TORONTO

DRAIN PIPES # TILES

WHICH ARE ALWAYS NEEDED BY CANADIAN FARMERS WHO ARE UP-TO-DATE.

MONTREAL.

has now the largest attendance in its history. Write for catalogue W. J. ELLIOTT, PRINCIPAL.

In answering any advertisement on this page, kindly mention the FARMER'S ADVOCATE.

1904

Il tell morits led the TURY I C A N

ring acance beyer and
ad.
we want
w you—
d y o u
ll profit
know-

118. 0., S, ONT.

be but the open the system for and gain at pint of ma-trom every Grimm sap is inserted in jury to taranteed."

RATOR.

TREAL.

r Assistant experience in and exhibit-aly up-to-date; herd and show stock photogndon, Ont. o

specialist, by f all forms and atter how bad, anding, can be rapidly and home; without of time from N. DEWEY, ent Co., Ont., here appears, is moment from K full of inree Trial led, free of all

S. RICE, Toronto, Ont.



CUT OF

# "IMPERIAL" PUMPING WINDMILL

Outfit which won the CHAMPIONSHIP OF THE WORLD against 21 American, British and Canadian manufacturers, after a two months' thorough trial. Made by om GOOLD, SHAPLEY & MUIR CO., Limited, Brantford, Canada.

You can be Cured at Home, Without Pain, Danger and No Loss of Time from Work. No Case too Bad or of too Long Standing



MR. JOHN MORRIS, Niagara St., St. Catherines, Ont., is cured of a dangerous rupture and lost no time from work. A. Valuable Book, telling how all ruptures can be cured and a Free Trial Mothod sent sealed post-paid, tree of all cost to all sufferers. Write at once; correspondence confidential. DR. W. en St. East, Dept. (271), Toronto, Ont.

# HAD OVER 500 BOILS.

This may seem an exaggeration to yet, BUT IT IS TRUE.

All sufferers from Bad Blood should read about this miraculous cure by

# BURDOCK BLOOD BITTERS.

CURED IN 1885. Mr. David F. Mott wrote us from Spring Valley, Ont., in 1885. He said: ared from impure blood and had over 500 boils, but since taking BUR-DOCK BLOOD BITTERS I am entirely cured, and can recommend it to any person troubled with bad blood.

CONFIRMED IN 1901. Mr. Mott writes us from 62 Broad St. Utica, N.Y., under date of Dec. 31st, 1901. He says:—Some time ago I re-ecived a letter from your firm, saying that some years ago you received a testimonial from me, stating that I had ever 500 boils. Yes, sir, I had, and I must say that I have never had the reappearance of one since I took the course of your BURDOCK BLOOD BITTERS. I thank God that I have had good health ever since, for I was a great sufferer.
I wish B.B.B. a world of success, which

it surely deserves. For sale at all druggists or dealers. THE T. MILEURY Co., LINEYED, Benesryo, Curs.

Wanted---Position as Manager or Assistant Wanter-rubilish do manager of Assistant By young man who has had 11 years' experience in importing, breeding, handling, selling and exhibiting cattle, horses and pigs. Thoroughly up-to-date; experienced in advertising, pedigrees, herd and show records, catalogues, etc. Good live-stock photographer. Or, will go in on shares. Alreferences, Address & Farmer's Annocate London Out. Address S, FARMER'S ADVOCATE, London, Ont. o



Fat, **Fortunes** and Carnefac.

You have an odd steer which grows fat on little feed. ALL the stock you have can be made to do the same. It's purely a question of assimilation. Remember, each day of unnecessary feeding, and each pound of unnecessary food, costs money. No animal fed

# CARNEFAC

will waste its feed, 'twill all go to flesh. Hundreds, like this gentleman, have written us letters. Let us send you copies.

Rapid City, July 23rd, 1903.

Carnefac Stock Food Co.:

Dear Sirs,—I have fed your Carnefac Stock Food, and can 'say that it is a great flesh producer, and it is also good in keeping an animal with a good appetite, and is also a prevention in keeping a calf from scouring. Yours truly, (Sgd.) J. H. HAMPTON.

"It can be done with Carnefac; it can't be done without it."

CARNEFAC STOCK FOOD CO., WINNIPEG.

Branch: 65 Front Street East, Toronto.



Our Sulphur Brands

Telegraph Telephone

LITTLE COMET

NO OTHERS 80 RELIABLE NO OTHERS SO QUICK

**Our Parlor Brands** 

KING EDWARD

HEAD LIGHT EAGLE

VICTORIA



NO OTHERS SO SAFE NO OTHERS SO SURE

Send for Catalogue

A MONEY-MAKER THAT SHOULD BE IN EVERY HOUSE. No. 4 A.

# The 20th-Century Knitting



will clothe the family with Shirts, Drawers, Hosiery, Mitts, Gloves, etc.; is simple in construction, substantially made, and easily operated. Our machines have held the highest place among knitters for over 30 years. Send for our illustrated catalogue; it is brimful of information and valuable suggestions for making money by knitting, or for those who want a thoroughly practical and serviceable machine for family use.

GEORGETOWN. ONT., 0 Box 533. BROS.,

More people die every year in consequence of cold feet and limbs than any other cause. To keep the feet warm is to protect the whole body. Our Electric Foot Batteries will warm the feet in five minutes, and keep a comfortable, genial glow in the feet and limbs all day long. These Vitalizing Poot Batteries increase the flow of blood in the feet and limbs, relieve the tired sick headache cannot by too much blood upon the brain. These Electric Foot Batteries work out a charge for the whole body, cure Rheumatism, aches and pains Batteries work on a charge for the whole body, cure Rheumatism, aches and pains in the feet and limbs, responde Chablains, and cause a pleasant, agreeable feeling of life, vigor and warmth, con the soft mays of sunshine. Electricity is "Bottled Sunshine." If you would be so weren feet send for these Insoles; 500 a pair; 3 pairs for \$1 00, he malk Send for our new Catalogue on

Electric Belts and other Body Appliances. The F. E KARN 61, 132 Victoria Street, Toronto, Can.



# A CANADIAN (Galv's.) AIRMOTOR

Will do more work than any other implement

# ON THE FARM

Grinding, Straw-cutting, Pulping, Pumping, etc.

# BEWARE OF NEWFANGLED WINDMILLS

Made largely to sell (you). We make a GOOD ARTICLE and stick to it-

# Ontario Wind Engine & Pump Co.,

Limited, ONTARIO. TORONTO.

THE ARNOTT INSTITUTE, BERLIN, CANADA.

For the treatment of all forms of SPENCH
DEFECTS. Dr. w. J. Arnott, Superintendent, We
treat the cause, not simply the habit, and therefore
produce natural speech.

Write for particulars.

# **AGRICULTURAL** COLLEGE.

SHORT COURSES in Stock and Grain Judging and in Poultry Raising, free. Three months' course in Dairying—\$1 registration fee. These courses will commence early in Jan., 1904. Send for circulars. JAMES MILLS, M. A., President.

## Guelph, Nov., 1903. WOODSTOOK

Painted. Por Power

08



Pumping

rone easy and controls itself in the storm.

GRINDERS, PUMPS, WATER TANKS, DRINKING BASINS

AND SAW BENCHES,

# WOODSTOCK WIND-MOTOR WOODSTOCK, ONT.

Excelsior Life

# INSUBANCE CO. Toronto, Ont.

Head Office: - -Absolute Protection. Profitable Investment. Agents wanted.

# RUPTURE.

Write for particulars as to how to cure it without a risky operation. Invaluable advice FREE  $\,$ C. H. Dorenwend, R. S., Toronto, Ont. State your case when writing. 393 Yonge St.

The Ontario Veterinary College, Limited,
Temperance Street, Toronto, Canada.
Affiliated with the University of Toronto.
Patrons: Governor-General of Canada, and Lieut.Governor of Ontario. Fee \$65.00 per session. Apply
to Andrew Smith, F.R.C.V.S., Principal. 18-9-y-om

# The Same Magazine. ESTABLISHED 1866.

VOL. XXXIX.

LONDON, ONT., AND WINNIPEG, MAN., JANUARY 14, 1904.

No. 590

# EDITORIAL.

# Resolutions for 1904.

The beginning of a new year is a favorite time with many for forming new and good resolutions. These are in order at any season, and never more so than at the present; and provided an honest effort be made to carry them into practice, good resolutions are helpful in all the relations of life-in building up character, in subduing selfishness, in respecting the rights of others, and in cultivating the spirit of goodwill to all men-characteristics which tend to the well-being of the citizen, and to success in any legitimate undertaking. The farmer, in relation to his business, does well to take stock at this time; to arrive at an intelligent understanding of his financial position, and to lay plans for improvements in his methods and management.

It may safely be said that the best of farmers do not farm as well as they know how, while many do not know how to farm as well as they would like. So there is room for all to improve. There are a good many little leaks in management, which if stopped would make a very considerable difference in the financial returns of the year. Economy in the use of time is an important factor in farming-doing the right thing at the right time as nearly as possible, and doing the most important thing first. The Germans have a saying, " Never do the second thing first," which is worth thinking about. "Do what your hands find to do, and do it well," is another useful injunction. To fall into a slipshod way of doing things, or to work without regard to system or regularity, is an unfortunate habit, and well accounts for lack of success in any line of business. Feeding farm stock, especially fattening animals, or milking cows regularly at the same minute, as nearly as possible, makes a wide difference in the profitable gain of weight of flesh or milk. Milking the cows at exactly the same time each morning and evening, and by the same person, accounts for a large increase in the product of milk and butter over the careless methods of many who imagine that the milk being there it makes little difference whether the milking be delayed an hour or two or done an hour or two earlier than the usual time.

"Stripping" the cows thoroughly has been proven by experiments a very profitable practice, the last of the milk being by far the richest in butter-fat. It pays well to study the question of economical feeding, and to put one's acquired knowledge on that point into practice. Highpriced foods, or such as would sell for a high price, are too often squandered by feeding them heavily to stock, when cheaper foods mixed with them would make the high-priced article go much further, making more economical gains in meat or

In fattening cattle, experiments have shown conclusively that a light grain ration in the early stages of feeding are much more profitable than a heavy feeding of rich foods, which are more profitably fed in the finishing period, and that a either for beef or dairy purposes, that well-matured corn silage is an economical and profitable food, owing to the very large tonnage per acre it is possible to grow, and the succulent and palatable nature of the food, as well as its substantial feeding value. Wherever corn can be successfully grown nearly to maturity, it will be wise to make provision for building a silo and growing

A cheaply and easily-grown crop, and a valuable forage crop for the pasturing-in late summer and autumn-of sheep, hogs and young cattle, is rape. Provision may well be made for a small field or two of this crop, where such stock

The importance of improving the quality and character of the live stock kept on the farm is becoming more and more a live subject, and farmers do well to grade their stock up to a better class by the use of pure-bred sires of the best type and by weeding out such animals as are not making satisfactory returns for the food they consume. A set of spring scales costs but little, and if kept in the stable and used to ascertain exactly what each cow is producing in pounds of milk, samples of the milk being tested occasionally for butter-fat, will clearly indicate which cows are making money for their owner and which are robbers, or barely paying for their board. The cost of production in all lines of farm work, it goes without saying, largely determines the profit or loss in the transaction, as it does in any process of manufacture, and the aim should be to reduce the cost to a minimum; and this is not to be secured by skimping, but by doing everything well, and in the matter of feeding farm stock, by feeding generously, for in this, as in many other things, the proverb proves true, that "There is that scattereth and yet increases, and there is that withholdeth more than is meet, and it tendeth to poverty."

Liberal treatment of the land, as well as of the live stock, will be found to pay best in the long run. Skimping the cultivation in the preparation of the seed-bed is almost certain to lower the quantity and quality of the harvest. yield, and over-cropping without rest and restoration of the fertility of the land will have the same ill-effect on the crop returns. Carelessness or indifference in the matter of providing clean, sound seed, also tends more than most people are willing to believe to lower the standard of quality and bulk of the crop.

These are but a few out of many points that might be mentioned on which there is room for improvement in the practice of many farmers, as will be freely admitted, and they are presented in a spirit of well-wishing, rather than of fault-finding, in the hope of stimulating to the resolve to improve in these and other features of the work of the farm, making of even the mistakes and failures of the past stepping-stones to better management in the year upon which we have entered.

In the intervals between hauling wood and hay and doing chores, a by no means uninteresting and a profitable way of occupying the farmer's time would be to take a look over the harlonger feeding term may thus be made more ness, fix up little stitches that can be done at profitable than a short feeding course. Experi- home, and arrange the more serious repairs to be ence has also satisfied most feeders of cattle, sent to the harness-maker on the first trip to

# Improvement of Fairs.

As the season for holding the annual meetings of Agricultural Societies and Fair Associations is approaching, the members of such societies will do well to consider what can be done to make the fairs more attractive, popular and useful. With all our boasted progress in many lines of farmers' organizations, we fear it cannot be claimed that in management and practical helpfulness to the class of the community in whose interest they were instituted, the average township or county show has made any appreciable advancement over the fairs of thirty years ago. Indeed, we believe it is safe to say that no other institution in connection with agriculture in this country has made so little improvement during that time as the fairs system. The cause of this state of things, we believe, is largely the indifference of the people. The annual meetings of Agricultural Societies, as a rule, are very sparsely attended, showing that the people generally take little interest in the work of the society, while of the few who do attend a considerable proportion are often of the class that like office better than work, and are more ornamental than useful, their re-election from year to year being easily effected where there is so much indifference on the part of the membership. There are, we freely admit, many honorable exceptions where public-spirited men give generously of their time and means to advance the interest of the society. What is needed is a revival of interest on the part of farmers in general in the work of the Agricultural Societies and of the fairs, which in the past have exerted a useful influence in stimulating competition and improvement in character of live stock in the country, and in many other lines of agricultural production; and the revival must commence in the annual meetings, in the election of progressive, public-spirited men as officers and directors, who will devote a reasonable amount of time to the study and introduction of useful and improved features into the fairs. That this can be done with gratifying success has been proven in late years by the record of a few of the county fairs in Ontario, notably that of Norfolk County, where, through the businesslike and intelligent efforts of a live secretary and manager, and a sympathetic and capable board of directors, a purely agricultural show has been successfully conducted financially, as well as socially, economically, and in the best interest of the farming community. What has been done in one county may be done in another by the use of the same methods, and we counsel fair boards throughout the country to enquire into and adopt up-to-date methods of management, and so to raise the standard of our shows as to make them what they were intended to be, and what they may be, really useful and helpful institutions in the country, instead of being, as too many are, mere horse-racing events, and sources of amusement of anything but an elevating character, and a lamentable misappropriation of the funds placed at the disposal of the directorate.

# Indispensable.

Please find enclosed order of \$1.50, for renewal of "Farmer's Advocate" for 1904. Impossible to do without it. Many thanks for C. B. BARBER.

Leeds Co., Ont.

# THE FARMER'S ADVOCATE

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

THE WILLIAM WELD COMPANY (LIMITED).

Two Distinct Publications-Eastern and Western.

EASTERN OFFICE: CARLING STREET, LONDON, ONT.

WESTERN OFFICE: IMPERIAL BANK BLOCK, CORNER BANKANTYNE AVE. AND MAIN ST., WINNIPEG, MANITOBA. BRANCH OFFICE: CALGARY, ALBERTA, N.-W. T.

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

IOHN WELD, MANAGER.

L. THE FARMER'S ADVOCATE is published every Thursday

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

a. TERMS OF SUBSCRIPTION.—In Canada, United States, England, Ireland and Scotland, \$1.50 per year, in advance; \$2.00 when not paid in advance. All other countries, 12s.

3. ADVERTISING RATES.—Single insertion, 20 cents per line, agate. Contract rates furnished on application. . THE ADVOCATE is sent to subscribers until an explicit order is

received for its discontinuance. All payments of arrearages must be made as required by law. 5. THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid and their paper ordered to be

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 scription is paid.

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

side of the paper only. so. CHANGE OF ADDRESS.—Subscribers when ordering a change of address should give the old as well as the new P. O. address.

II. WE INVITE FARMERS to write us on any agricultural topic 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 no
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.

22. ALL COMMUNICATIONS in reference to any matter connected with this paper should be addresse individual connected with the paper.

Address-THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (LIMITED),

LONDON, CANADA.

# The Dominion Exhibition for Winnipeg.

The announcement that a Dominion Exhibition will be held in Winnipeg during the present year comes as a surprise to most people, owing to the general opinion that a show sufficiently comprehensive in character to illustrate the possibilities of this country could not be prepared for before 1905. As pointed out at the institution of the campaign for a Dominion Fair in the April er's Advocate," there are great advantages to be had by successfully conducting an exhibition of this kind in the West, and while there is reason for gratification over the decision of the Federal Government in granting \$50,000 in support of the proposition, in the short time at the disposal of the Exhibition Board, it becomes the duty of every Canadian, and every Westerner in particular, to bend every energy in the direction of making the exhibition this year a greater success than ever, and as fully representative of Canada as is possible. The Dominion grant will be applied to the erection of new buildings, including a large manufacturers' building; the augmentation of the prize money; payment of freights on shipments, and advertising the Exhibition, especially in connection with the propaganda of the Immigration Department for attracting immigrants to the West.

The Canadian Manufacturers' Association is giving the Exhibition its hearty and active support, and is directing its efforts to making the exhibition of manufactured goods as complete as resaible, by impressing upon its members the impostence of sending their exhibits to Winnipeg. This was very clearly impressed upon the manufacturers during their Western tour last autumn.

Gold on eth not from the mint, unless gold be sent thomas If we keep good stock we will, by good feeding word forth good beef into the

## Are the Lumbermen's Methods of Manufacturing Up-to-date.

Interest is added to your editorial on the "Lumber Combine Inquiry" by the report of a recent meeting of the B. C. millmen and loggers, held at Nelson, B.C., at which mills with a total annual output of 600,000,000 feet were represented. Amongst other business and resolutions passed at this meeting was one to memorialize the Dominion Government to prevent the incoming of American rough lumber by placing a duty on it. The intention to milk the agricultural cow is not at all disguised, and might be allowed to pass only that the live-stock industry of the whole Northwest, as well as settlement, by increasing the price of lumber to farmers, would be hindered.

Freight rates have probably hit the Coast lumbermen, as have such rates the farmers, yet before allowing that the lumbermen are being ruined and driven off the markets, as they say they are, it might be well to look into the matter and find out the reasons for such a state of things. The labor problem is said to hamper the Coast lumberman. Perhaps it has; he certainly uses a lot of the cheaper grades (Japs and Chinese) of labor.

As the statement has been made, and not controverted by the millmen, that Canadian rough lumber is being ousted from the Northwest markets by the U.S. product-which quite frequently was bought in the log in Canada, towed to the U. S. mills and there manufactured, then freighted back to the Canadian market-it becomes of more than ordinary interest to readers of the "Advocate" who are about to build, and even has some interest to those lucky fellows who only need to study the question as one in economics, their farms being already well built.

One statement may be made, and that is that owing to the brisk demand for lumber on the prairies (and the prospective profit to be obtained by manufacturing lumber for that market!), many new mills have been started, both at the Coast and inland, yet prices for lumber on the prairie have not fallen. As is quite frequently the case in other lines of business, some have started with little capital, and doubtless some with little knowledge of the trade. In that trade (lumber), as in others, there are big and little operators, and it is easy to see that under the plea of fostering the weaker ones, by making a minimum price for all mills to sell at, and by limiting or keeping out competition of the U.S. mills, the stronger mills become still stronger. To this minimum price the smaller men must agree or be frozen out, by being undersold, and therein lies the combination.

Such a combination may be held to be defensible from an economic standpoint, if all the methods of economizing in the manufacture of lumber have been exhausted. A little insight into the prices paid for the raw material by the millmen will aid in arriving at a fair understanding of the matter by the farmer.

A business man informed me that he had sold under contract five million feet of first-class logs, for which he was to get \$5.50 per thousand at the camp, and he remarked, "A higher price than I could get to-day, but I contracted early in the season, before the mills were well supplied "!

The millmen paid the stumpage fee to the Provincial Government of fifty cents per thousand, which, together with the cost of towage to the mill, would bring the price of the logs to nearly \$7.00 per thousand, which after being manufactured is placed on the market as rough lumber at \$13.00 a thousand. Querying the same person re the profit thus made, he said, "\$13.00 is too high a price for rough lumber "! Scaling (measuring of the logs) was mentioned, and as this is a chronic grievance of loggers, I state his answer, "The lumber companies like to get 1,500 feet for 1,000 "!

Agitation has been made for the scaling to be done by Government scalers. Giving a man Government employment won't make him honest, if he was dishonest before! Curious then to know where the fault really lies between loggers, millmen and the open market for rough lumber, I hinted that further information would be acceptable, and this gentleman informed me that "the reason, in his mind, that the U.S. lumberman beat the Canadian millman, was because his plant was more up-to-date, and the lumber was handled

fewer times "! He sententiously remarked, "Every time a board is handled adds to its cost," a similar reason one often hears advanced for stook threshing. This man stated that he had been in mills south of the boundary line that had only a half to two-thirds of the number of men to be found in many Canadian mills of an equal ca-

Thinking that it might be well to have further information, I queried another person, interested in a lumber company, about prices paid by his company for logs, and prices obtained for the manufactured article, and whether such prices were paying ones. The price paid for fir logs at his mill, fairly good stuff, although not the best, was \$5.00 per thousand feet, and for 16-foot cedar bolts at the mill, A1 stuff, clear of knots, \$10 a thousand feet. All the mill run of the cedar was put on the cars at \$18.00 per thousand, without being kiln dried; the fir lumber (rough) was sold at the price made by the Millmen's Association, viz., \$13.00 a thousand, and he is well satisfied that his investment was a paying one at such prices. He being an interested party, I did not think it fair to ask his opinion re putting a duty on rough lumber.

An economic question such as this, should be out of the domain of politics; if so, the farmer will not suffer, while the millmen can increase their profits, without closing up the numerous planing, sash and door factories in the prairie towns, by the adoption of more up-to-date methods. It is hardly fair to ask the farming community to stand the cost of experimenting as to the best methods of manufacturing-many farmers (unwisely so) gasp at paying for experimental " NOMAD."

## Domestic Servants on the Farm.

The question of hired help on the farm is one which, according to paragraphs appearing from time to time in the daily press, is always just on the eve of solution. The announcement is made that communities have been discovered-it may be in the "thickly peopled glens" of the west coast of Scotland; in the fastnesses of the mountains of Wales, or surrounding a heretofore undiscovered Irish bog-in every case the intelligence is offered as a solution of the problem of the scarcity of domestic servants in Canada. It is pointed out that these populations are composed of a great predominance of girls; that these girls are all about the right age to make good servants, and that nothing but the lack of transportation keeps them from emigrating to Canada, or some such place, where they are dying to find the very occupation we have to offer them. Sometimes the paragraph goes the length of saying that the Immigration Department has made arrangements to bring drafts of those highly desirable immigrants out to the country, and a regular piecemeal immigration is looked forward to by those in the unfortunate position of requir-

The facts are that the scarcity of girls to do domestic work on the farms is just as keenly in Great Britain as it is here, and every girl who can be induced to engage in that occupation is being picked up readily. True, the inducements of superior social status offered by Canada has succeeded in bringing many girls to our farms, but only a short time elapses when some lonely bachelor on matrimony bent, comes and brings the neighbor's treasure to his own fireside, and the last state of the house she has left is worse than the first. While this condition exists, the life of the farmer's wife is far from be-Women have ing one of ease or comfort. ever been known to endure hardships with more fortitude and less complaint than men, and hence it is that so little is heard of their difficulties and discomforts in the farmhouse. It is a circumstance in the social aspect of our farm life, however, not only that is to be deplored, but which everyone connected with rural industries should strive to remedy. In the meantime, it is useless to look for a remedy in the way of a sufficient supply of servant girls. The number wanted is far too great to get supplied all at once, or in the immediate future, either by immigration or any other means; and it would be equally useless to hold meetings and pass resolutions on the subject as men do when they have a grievance, or imagine they have one. The only available remedy in sight lies with the individual, and each individual can do his share in making the life of the wearied housewife more comfortable. Little acts done at meal times and little self-denials during the day by every individual amount to a great aggregate in the day's work of the house, and a give-and-take spirit, with kind words and no grumblings, will work wonders in the arrangement of the household, and in the spirit of tranquility which such will be found to induce.

D 1866

d, "Ev-

cost," a

or stook

been in

ad only

to be

qual ca-

ave fur-

n, inter-

paid by

for the

ces were

at his

the best,

oot cedar

ots, \$10

he cedar

housand,

(rough)

fillmen's

d he is

paying

ed party,

re put-

hould be

farmer

increase

umerous

prairie

-to-date

farming

nting as

ny farm-

rimental

n is one

g from

ays just

ment is

vered—it

of the

of the

eretofore

ne intel-

oblem of

da. It

re com-

s; that

o make

lack of

ting to

re dying

fer them.

of say-

as made

ghly de-

and a

forward

f requir-

ls to do

ery girl

cupation

induce-

Canada

to our

en some

nes and

wn fire-

has left

ition ex-

from be-

en have

ps with

is heard

ne farm-

al aspect

at is to

ed with

In the

emedy in

it girls.

get sup-

e future,

s; and it

ngs and

do when

ave one. with the

nis share

rife more

mes and

ery indi-

he day's

te spirit,

ll work

hold, and

will be

than

MAD.''

m.

# HORSES.

## Stallioners' Lien Act.

To the Editor "Farmer's Advocate":

Now that there are enormous sums of money spent in the purchase of pure-bred stallions throughout Ontario, and breeding is proceeding satisfactorily to the owners of pure-bred stallions, and also to the farming community in general, the present is a fitting time for the various horse-breeding associations to see that the stallion owners have proper security for the payment of service fees by the Government passing a Lien There is scarcely an owner of a stallion in Ontario who could not record losses, the service fees never being paid by individuals who call themselves men, especially at election time. This class of man, having found of late years that the pure-bred stallion is the most profitable to sire his colts, is as eager to breed to the good stallion as the gentleman who will pay on the very day the money becomes due. The owner of a stallion, when the season opens, probably goes with his horse into a strange neighborhood. fore he leaves it, about 1st July, his horse has served the mares of a number of worthies. When collecting time the following winter arrives, and he goes and meets those same worthies, and talks about payment, he thinks he is talking to another party altogether. The agreeable, unctuous smoothness has vanished, no satisfaction can be got; a second or third appeal shows the wolf in sheep's clothing. He tells you to sue for it, as you can get the money quicker than he can by You sue it, and that costs you more money, and you discover when you try to enforce the judgment given you, that chattle mortgages, lien notes, etc., etc., control all his earthly goods. The stallion owner is forthwith a sadder and wiser man. This process will be repeated ad infinitum, until the crying need of the times becomes a law, viz., a Lien Act, to include both mare and foal. This will simply ensure to the stallion owner what rightfully belongs to him, and nothing more, for as soon as the fees are paid everything is free. A Lien Act will have no effect whatever on mares belonging to gentlemen who are glad to pay for a good animal. An Act of the kind will effect instant changes, and the pseudo-gentleman will become the genuine gentleman, as far as the stallion owner is concerned. How long are owners of stallions going to put up with the present ar-They are truly a long-suffering party. If a vote were taken of all the stallionowners in Ontario, they would say "Aye" for the Lien Act. If a vote were also taken of all the honorable breeders who would favor the Lien Act, "Aye" would be their answer, as possibly at no very great distance in the past they have suffered some loss in other ways from the men whom the Lien Act is designed to partially convert into gentlemen. The Lien Act, by all means, ought to be passed to come into operation this coming spring. The stallion-owners will give their heartfelt thanks to any Government which puts it upon the statute book. The Lien Act ought to have precedence over chattle mortgages, lien notes, or any debt whatsoever, as far as the foal is concerned, and many will both mare and foal. The Act, in its operation, ought to be as simple as possible.

# HORSE-BREEDER.

Where the Horse Suffers.

The practice of feeding horses on "hitch-post hay" while in town is far too common in this country. A short period of such treatment will not hurt a horse if he be covered with a thick, warm blanket, but it is cruelty without excuse to leave horses hitched to a post in cold weather for any length of time, while the owner may be enjoying the hospitality of a friend or discussing in hot debate with a neighbor in the comfortable warmth of the store the salvation of the country by some munificent scheme he has conceived.

# Special Clubbing Rate.

In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. Regular subscription price, \$1.50 per year (52 numbers). Show prospective subscribers a copy of the weekly. Every farmer should have it. Address, "Farmer's Advocate," London, Ont.

The generic character, says Count Lehndorf, in his "Horse-breeding Recollections," especially must be unmistakably expressed in either sex. I dislike mares resembling in shape and manners stallions, as much as I dislike entire horses of which minute inspection is necessary to convince one that these are not mares or geldings. The more quality the mare possesses, the more marked must be the expression of her sex. The charm of femininity, if I may say an aught to pervade her whole appearance,

## Clydesdale Folklore.

In addressing a meeting of horse breeders, Alexander Galbraith, of Janesville, Wis., said: "Within my own recollection a distinct evolution in the tastes of breeders and demands of the market is clearly noticeable, and to no breed of horses does this apply with greater force than to the British draft breeds of Clydesdales and Shires. I can well remember, when a small boy on the farm, a rather noted Clydesdale mare which my father owned. She was named 'Old Jess,' and was sired by the celebrated 'Broomfield Champion' (95). This mare was the dam of many fine colts, one of which, 'Johnnie Cope' (416), won the



Fred. S. Black, Amherst, N. S.

Winner of the \$50 special prize donated by the Dominion Agrshire Breeders' A-sociation, for best pure-bred cow of any breed at Maritime Winter Fair.

Highland Society's first prize at Glasgow fortyfour years ago, and that season sired the celebrated black horse 'Campsie' (119), the winner of
many premiums in Scotland, and one of the
earliest horses owned by the well-known David
Riddell. The old mare 'Jess,' to which I refer,
differed in every material point from the typical
show Clydesdale mare of the present day; in fact,
she resembles far more closely a characteristic
Shire mare. She was large, approaching if not
seventeen hands high, very powerfully made all
over, with immensely heavy bone, not of the flatest or cleanest kind, but such as would appear to
good advantage when measured with a tape-line.
She had wonderfully heavy feather in keeping with



Stanley A. Logan, of Logan Bros.,

Amherst Point, N. S., breeders of Hol tein (attle, Shrepshire sheep, Yorkshire and Berkshire swine, winne s of the \$50 clock, donated by M. S. Brown & Co., for best collection of pure-lived sheep at Mari ime Winter Fair.

her immensely heavy frame—in other words, rather coarse, hard, wiry hair. She had never been worked on the farm, although she lived to be over twenty years old. She had, I suppose, a mind far above ordinary farm work, as she was considered and looked up to as a model mother of stallions. Contrasting that animal

with the typical Clydesdale mare of to-day, we find the difference very marked indeed. weight of bone and frame has very materially decreased. The quality and action have correspondingly increased. The dams of such horses as McGregor, or Baron's Pride, were but small mares compared with 'Old Jess,' or even with 'Kier Peggy,' the dam of the famous 'Darnley. well remember seeing 'Keir Peggy' win first prize at the Highland show in 1864, and I saw the same mare twenty-two years afterwards, and I still think her one of the grandest animals the breed has ever produced. She had considerable scale, a fair amount of quality, was very symmetrically formed, with good action, but the most remarkable thing about this mare, and which has been a hard problem for Clydesdale breeders ever since, was that by far and away the hest colt she ever produced, and she produced ten in all, was sired by an undersized and rather inferior stallion. This stallion's name was 'Conqueror' (199), owned by Mr. Moffat, of Shirva, and I well remember when the horse was hired at the Glasgow Spring Show of 1871, by the Dumblane, Doune and Callander Farmers' Club, to travel their district for small terms, the wiseacres laughed at the incompetency of the committee for choosing such a horse. Sir William Sterling Maxwell's estate of Keir being in the district, the manager thought he might perform a generous act by sending one of their mares to the district horse, and I understand the reason why Keir Peggy' was the one chosen was because she had failed to get with foal to any of their own stud horses, and they had several of considerable note. At any rate, the result was that 'Keir Peggy' got with foal by this obscure horse, and in due time produced the world-famed 'Darnley,' probably the greatest Clydesdale of the nineteenth century. It seems the irony of fate that such a wonderful product should be brought about in this haphazard manner. The mare was afterwards bred to many excellent horses, but never produced anything at all equal to "Darnley," either for individuality or breeding qualities, although two of them were good enough to win at the Highland show.

# STOCK.

# Feeding Calves for Beef.

There are a great number of calves, the offspring of the general-purpose grade Shorthorns which are commonly found on farms, that are raised on skim milk, and are used for the production of beef. It is easy, by good feeding, to produce excellent animals in this way, but, as anyone who has bought steers for feeding can testify, great numbers of these cattle are utterly spoiled by bad methods of feeding during the time they are calves, and are so stunted that no amount of good feeding at a later period can make really good cattle of them. It is of the utmost importance that the calf which is intended for beef should have a good start, and should form, while yet a calf, those habits of growth, thriftiness and good constitution which are the necessary characteristics of the good beef animal. To accomplish this end, good and careful feeding

In the milk food of the calf raised for beef a little generosity will prove the best economy. Those who take the calf at once from its mother and put it on skim milk at the end of a week or ten days, may save a little cream, but they run the risk of so injuring the delicate digestive organs of the young animal as to permanently retard its growth. It is a much safer practice to allow the young calf to remain with its mother for a day or two, so that she may nurse it and give it a good start; then to remove it, and give it warm new milk, in moderate feeds, twice a day for four or five weeks. It is a great mistake to feed even new milk from a pail in excessive quantities. Four or five quarts twice daily will be found an ample feed, and to feed more is to run the risk of upsetting the youngster's digestive organs, even while all new

milk is being fed. At the end of four or five weeks the calf is stronger, and a gradual change may be made from new to skim milk, taking ten days or two weeks to make the change, and being careful to have the skim milk as nearly as possible at the ordinary temperature of new milk. At the same time, some equivalent for the cream taken from the milk should be added. Starch, of course, fills much the same place as a food that fat does. It is not well, however, to use starchy foods as an equivalent for the butter-fat of the milk. The digestion of starch is effected through the action of the saliva of the mouth, and where starchy foods are fed in milk, they almost entirely escape this action, pass on to the stomach undigested, and cause trouble; hence, the fashion of feeding the meal of the ordinary grains in the milk, either raw or cooked, is not good, and is liable to lead to digestive troubles, and perhaps to scouring. The best substitute for the cream taken from the milk is, by all odds, flaxseed,

either whole or ground, boiled into a thick gruel. Flaxseed contains a very large proportion of fat and protein, and a very small amount of starch, hence it may be fed safely in milk, as the action of the saliva is not so much needed in its diges-Fed in small quantities at first, and afterwards increased until two cupfuls of the gruel are fed in the milk, it not only forms a good cream equivalent, but has an important action in preventing constipation and promoting that general appearance of thrift and well-being which is characteristic of the well-doer among beef cattle. The flaxseed should be continued until the calf is eating grain very freely. It is well to continue to

feed milk as long as we can; at least, till the calf is six or seven months old.

As soon as possible, while the calf is yet on

new milk, the calf should be taught to eat. For this purpose, a little good clover hay is very valuable. Whole oats are very soon relished, and the calf may safely be allowed all he will eat. It is very important, however, to see that no food is left in the manger. We should be careful to feed no more than will be eaten up at one feed, and if any is left, it should be cleaned out of the manger before another feed is given. In the winter a little pulped roots, or even silage, may be given with advantage. In the summer, we believe it is well to give the calves the run of a small paddock of grass, provided with a shelter from the sun during the heat of the day. Calves so treated do not present the sleek, smooth appearance of those which are kept constantly in the stable, but they develop a better constitution and do better afterwards when turned out on the

# The Chicago Judging Contest.

grass as yearlings to shift for themselves. D.

The results of the Spoor Trophy judging competition at the Chicago International Exhibition were made known on December 31st, nearly five Iowa Colweeks after the judging took place. lege secures the bronze bull for the third time. Ohio stands second and Kansas third. The Ontario College authorities elected to withhold their team from this year's competition, the public being left to gather that they were not satisfied with the methods of conducting the competition, and judging from the delay incident upon making the awards, it would appear that their contentions were not wholly groundless. If there have been unbusinesslike methods in connection with the management of this competition, it is to be hoped the action of Ontario in withholding her team and the delay in announcing the results will have the effect of eliminating every possibility of suspicion of questionable practices, and of arranging the details of the competition so that the awards may be made in the most straightforward and expeditious manner.

So far as the Ontario stock-judging students are concerned the position taken by their college authorities was most unfortunate. In withholding their team the authorities at the Ontario College evidently intended their action to be considered as a protest against the methods of managing the competition, but it must be admitted that the sacrifice they called upon the students to make was far out of proportion to the good to be accomplished. International competitions are rare opportunities in a student's life should be utilized to the aggrandizement of his native country, and to the strengthening of his own personal position. Such an opportunity was either neglected by the students or denied them As individuals their lcss will by the authorities. be borne personally, as Canadians their action hardly tallies with the characteristic Canadian determination to do their best at every opportunity for competition, and to accept the verdict uncomplainingly, whether it be just or unjust.

# Stock-raising Declining in Scotland.

It cannot fail to strike Canadians in a disappointing sense to learn that the returns recently issued by the British Board of Agriculture show a serious diminution in the number of cattle and sheep in Scotland during the last few years. A writer to one of the Scottish agricultural journals deplored the conditions which give up the Highland hills and moors, so suitable to the raising of sheep and Highland cattle, to the preserving of deer and game for millionaires to shoot.

A different view of the above situation is given by a writer to one of the British sporting journals-a Highland laird-who thus delivers himself: "There can be no reason why the Board of Agriculture should not take an interest in preserving game, a matter which, from the economical standpoint, is of much greater importance than, for example, the prevention of scab in He goes on to lament the fate of the or growe," which are driven from the moors by the muldborrent, iniquitous stench" of sheep What Scotland wants, and what Scotlish tenant-factorers should insist upon getting, is an Act providing compulsory attendance of the Scottish lairds at an agricultural college for a course of training.

# Live Stock Sales in England in 1903.

From a specially-prepared compilation of the leading English stud stock sales during the past year, our correspondent has written the following summary, making mention as far as possible of the principal sales in each breed:

SHIRE HORSES, on account of the widespread interest displayed in them from the highest to the lowest in the land, naturally take Compared with the preceding year, precedence. we find that the averages realized are not so high, but in more than one instance the top prices of the several sexes have been higher. The hest sale average of the year was that secured by Messrs. J. & J. Shaw, £165 14s. for 27 head; this was closely followed by Mr. J. Wainwright's £152 1s. 2d. for 33 head. Turning to the individual prices, it is found that £868 5s. was the top sale price for a mature stallion in 1903, Mr. J. Wainwright being the vendor. Another from this stud made £682 10s. Two at Messrs. J. & J. Shaw's realized £640 10s. 10d. and £336. and one at the Shire horse sale at the Agricultural Hall, London, made £241. The three-yearold stallions were in request, one at the Agricultural Hall sale making £541 10s., the top price of the age during the year; others sold at £420 (C. Keevil's), £283 (Sir A. Henderson's), £325 10s. (J. & J. Shaw's), and £231 (J. Wainwright's). At the Agricultural Hall sale in the spring the top price for two-year-old stallions was secured, £399, the next best price being £378 at Mr. J. Whitehurst's sale, and £304 at Messrs. Shaw's. Mr. J. Wainwright made top price for yearling stallions, £325 10s., and Lord Llangattock that for colt foals, £210. Lady Wantage easily led the way in respect to the prices for brood mares and four-year-old fillies, at £462 for the former and £525 for the latter; two others of the first-named age made £315 and one of the last named. Lady Wantage, in three-year-olds, also made the best price, £535 10s. Llangattock was the next, with £399 10s. W. Jackson took the lead in the two-year-olds, an age that sold remarkably well, his top price being £420, Sir A. Henderson's £398 coming in a good second, whilst Lord Llangattock secured £315 for another; His Lordship making the best price for filly foals, namely, £168, and also for yearling fillies, £336.

HACKNEY sales have not been so numerous as in some former years, and, further, it is becoming more and more difficult to separate these sales from those of the ponies. The best price made for stallions during the year, as published in the agricultural press, is £183 15s. For threeyear-olds the top price secured at the sale held by the Messrs. Mitchell was £131 15s. year-old stallions made from £89 5s. and the yearlings at from £126, this price being made of one at Sir Gilbert Greenall's sale. Brood mares sold at good values. Amongst the best prices of the year are £199 10s., £176 10s., £141 15s., and £117 12s., made at the respective sales held by Messrs. Mitchell, W. Foster, James Clappison, and A. Wilson. The £173 5s., made by Mr. Clappison, was the best price for the three-yearold fillies, and £110 5s., realized by Mr. W. Foster, the best price for a two-year-old filly.

FOR HARNESS HORSES (singles) prices ave been quite good: one being sold at the Wrexham spring sale for £420; another, Mr. A. Morton's, making £378; another, at Sir G. Greenall's, making £241 10s.

FOR HUNTERS the demand was a good one all through, Sir H. F. de Trafford making the top price, namely, £1,100 for one and £1,050 for a second, the average for the twenty-three being £287 3s. Lord Lonsdale made up to £472 for one, and averaged £217 7s. 8d. for fourteen.

CLYDESDALE sales were not many, the best prices noticed during the past year being: For two-year-old stallions, £94 10s.; for mares and fillies, £336, £145 10s., £170, and £168. late R. Frederick, Lord Arthur Cecil, and Mr. H. Webster were the principal vendors during the

SUFFOLK sales were not very numerous, £260 being the best price for stallions, this being secured at the sale held at the Royal Show, the animal being purchased for Australia, together with another one of the same age and sex, at £152 5s. Two-year-old stallions made up to £65 2s.; brood mares to £78 15s.; three-year-old fillies to £84, and two-year-olds up to £47 5s. There was a capital demand for both colt and filly foals, the former making up to £68 5s., and the latter to £33 12s.

# CATTLE SALES.

SHORTHORNS.—Amongst these, first and foremost, comes the Shorthorn, at home or whereever it goes, either as a beef or milk producer. It is a breed of cattle second to none for general purposes. The sale record of the past year is a notable one, more particularly for the high individual prices realized, some of the more important of which are referred to below. The best average of the year in England was that recorded at H. M. the King's sale at Windsor, when a

sale averaged £82 2s. 6d., the best of the year, though Earl Manvers ran it very close with his average of £81 2s. 7d. for sixty-one head. Mr. W. Bell's sale takes the next place in the sale average list, with £68 3s. for fifty-four head; then follows the well-known annual sale at Riby, Mr. H. Dudding's, at which sixty-two head made the fine average of £54 11s. 8d. The best prices realized at the auctions, for the several ages mentioned below are as follows: Bulls-£840 for Royal Duke, at the King's sale; £580 5s. for one at Mr. W. Bell's, whose fifteen bulls averaged £127 2s. 5d.; £367 10s. at Earl Manvers' sale; whilst £315 was reached three times, twice at the Birmingham spring sale and at Mr. Ecroyd's sale; one at Mr. Dudding's made £239 5s.; one at Birmingham £231; another at Perth made £278, and one at Mr. A. Hiscock's £183 15s. The most notable sales for bull calves were those held in Scotland in conjunction by Messrs. W. S. Marr and W. Duthie, the former gentleman making an average of £211 19s. 4d. for eight, with a top price of £630, and the latter an average of £144 2s. 9d. for twenty-two, with the top price of £493 10s. Several other calves realized over the century, amongst them one at Captain Hume Graham's, £141 15s.; one at Mr. McIntosh's £110 5s., and one at Mr. John Wilson's, £105.

ABERDEEN-ANGUS.—The large and spread interest in Aberdeen-Angus cattle is clearly shown by the wide area over which the sales of this breed have during the past year extended, namely, from Perth in the north of Scotland to Tedfold in the south of Sussex. At the whole of the sales high prices for the best specimens have been the rule. The averages realized are quite in keeping with the three typical ones given. namely, Mr. John Grant's, at Advie Mains, £46 8s. 5d. for sixteen; G. R. Siach's, at Rasebrea, £38 14s. 8d. for forty-seven, and Mr. C. W. Shroeter's, at Tedfold, Sussex, £36 18s. 9d. for sixty-six head. The top price for bulls was made at the Perth spring sale, £504; another making £115 10s. at the Birmingham sale. Mr. G. R. Siach made the best price for bull calves, £73 10s. No less than five cows realized over the century: Mr. Siach's £199 10s.; Mr. C. W. Shroeter's £157 10s.; a similar price for one at Perth, where another made £115 10s., and £110 5s. at the Earl of Longford's. The best prices for two-year-old heifers was £147 at Mr. Siach's; one of Mr. Wilson's making £105 1s., and another at Perth spring sale £100 16s. The yearling heifer record price for the year was secured at Perth spring sale, £148 1s., and £47 5s. was the top figure for heifer calves.

HEREFORD sales this year have been made notable by the grand result secured at the dispersion sale of the well-known herd owned by Mr. R. Green, where sixty head made the notable average of £54 10s. 2d.; the best prices being: Bull calves, £273 10s.; cows, £315; the average for twenty-eight of this age being £83 17s., and for yearling heifer, £472 10s., fifteen of this age making an average of £65 14s. 6d. year-olds sold from £110 10s., and the heifer calves from £37 16s.

GALLOWAYS have not had a large number of sales, but at those which have been held the demand has been very good indeed. The following include the best prices of the year: Bulls, £53 11s. at Castle Douglass, and cows from £40, Mr. J. Jefferson's.

# SHEEP.

All through the year the hopes of flock-owners have been in the ascendant, and prices have kept getting higher and higher, the best prices of the season being those made at the latter sales.

A brief review of the more important results disclosed in connection with the principal English breeds are given below:

LEICESTERS, which have in the past had so very much to do with the improvement of the present breeds of English sheep, are not at the present time so much in demand as some of those breeds which owe a good share of their present success to it. However, the sales, judging from the reports before us, have been remunerative to their breeders, the best average for rams being £10 3s., and the top price for the same was £18

COTSWOLDS are not at the present time very popular at home, but still in some counties, particularly in Norfolk, there is a large demand for them for crossing purposes, Mr. D. Brown being the leading ram seller, or, rather, "Letter," in that part of the country, for he never sells, but always "Lets" his sheep for the season, after which they return to him again. One hundred ram lambs "let" at his sale made an average of £7 6s., and his rams, which made up to £18 7s. 6d., averaged £11 11s. for seventy. The best price of the year was, however, made by Mr. W. Houlton, whose flock has come well ahead during the past few years; this was £26 5s.

tr

th

THE LINCOLNS have again secured the honor of being the breed that has produced the top price ram of the year; this sheep being the unbeaten yearling ram, sold at Mr. H. Dudding's sale to go to the Argentine at £231; Mr. Tom very notable selection of cattle were offered. The Casswell selling one at Lincoln at £71 8s.; and ED 1866

he year,

with his

d, Mr.

the sale

r head;

at Riby,

ad made

st prices

es men-

840 for

. for one

averaged

rs' sale;

twice at

Ecroyd's

de £278,

The most

held in

S. Marr

aking an

ir a top

of £144

price of

over the

n Hume

h's £11,0

d wide-

is clearly

Eules of

extended.

lland to

he whole

pecimens

ized are

es given

ins, £46

lasebrea.

r. C. W.

9d. for

vas made

making

r. G. R.

ves. £73

over the

C. W.

one at

nd £110

st prices

Siach's:

and an-

The year-

secured

5s. was

en made

the dis-

d by Mr.

notable

s being:

average

17s., and

this age

The two-

he heifer

umber of

d the de-

following

ılls, £53

£40, Mr.

ck-owners

ave kept

es of the

t results l English

ast had

nt of the

t at the

of those

present

ing from

ative to

ns being

was £18

time very

ties, par-

mand for

wn being

tter," in

ells, but

son, after

hundred

verage of

£18 7s.

The best

y Mr. W. ad during

the honor

the un-

Dudding's

Mr. Tom 8s.; and

ules.

Messrs. R. & W. Wright and J. E. Casswell sold one each at the same sale at £65 1s. 5d. The best averages for yearling rams during the year were those made by Messrs. S. E. Dean & Sons at Lincoln sale, £35 1s. 4d.; Mr. J. E. Casswell at the same fixture, £33 7s.; Mr. Tom Casswell at the same place, £27 8s. 9d.; and Mr. H. Dudding at his annual home sale, when thirty-seven rams were sold for an average of £27.

good year, the demand for their sheep, both for home and Scotland, as well as for export, being very good indeed. Mr. J. T. Hobbs made the best ram average of the year, namely, £15 7s., Mr. A. Brassey's being the next best, £12 18s. 3d.; then came Messrs. Millican and Middleton, at Kelso, £12 14s. The top price for yearling rams was secured at the Oxford Fair by Mr. J. Wortley, £63; Mr. J. T. Hobbs making £60 at his annual sale, and Messrs. Treadwell £58 16s.

THE SHROPSHIRES have not been so remarkable for high prices this season as they were in 1902, the best price for rams during the year being £105 at Mr. A. Tanner's sale. Other notable prices made include £94 10s. at Messrs. Evans, and £78 15s. at the late W. F. Inge's.

THE HAMPSHIRES have had a most notable season. Probably never before have prices been so high nor the demand so good as it was for this breed all through the season. Space will not allow of full details being given. This can, however, be obtained from Chapman's record in the Farmer and Stock-breeders' Annual, published in London, England, where there are recorded upwards of 1,200 separate sale results. The Earl of Carnarvon dispersed his widely-known flock, and the result was that the 485 sheep made an average of £6 17s. 10d. This is, indeed, a remarkable average, particularly when it he remembered that it included no less than 182 lambs, Then we have that record sale and "letting" of Mr. James Flowers' ram lambs. Here one hundred lambs, nine of which were let for the season, made an average of £21 4s. 6d. each; the let lambs ranging in price from £141 15s. each, and averaging £59 3s. This same breeder also sold at this sale 100 draft ewes, which realized the high figure of £7 2s. 6d. each, making the aggregate total of the sale £2,833.

THE SOUTHDOWNS have not sold so readily as in some former years. The best prices made during the past season include those made at the dispersal sale of the late Col. McCalmont. At this fixture the best prices for yearling rams, £48 6s.; for stud rams, £43 1s.; for ram lambs, £78 15s.; for flock ewes, £15 15s.; for yearling ewes, £10 15s., and for ewe lambs £3 6s., were realized.

THE SUFFOLKS have been in request for home demand. The top price here for yearling rams was £99 15s., whilst the ram lambs which were in request realized as follows: £49 7s., Mr. D. A. Green; £45 2s., H. E. Smith; £43 1s., S. R. Sherwood; £38 17s., J. W. Eagle; and £37 16s., T. Traylen.

THE KENT OR ROMNEY MARSH sheep have been in large demand; in fact, it is many years since either the home or the export demand has been so brisk in connection with this breed. The averages realized by the leading flocks have been from 15 to 25 per cent, higher than in the preceding year.

For the minor breeds of the country the demand has been equally good. Amongst the more notable prices in connection with these may be mentioned £19 19s. for a ewe lamb of the Border Leicester breed; £123 for a Black-faced Mountain ram; £115 for a Cheviot ram, and £42 for a Kerry Hill ram.

W. W. C.

# Feeding Sheep in B. C.

To the Editor "Farmer's Advocate":

In your issue of December 1st your correspondent, "Nomad," has got far astray in his facts; he has taken too much on hearsay. It is a good many years since sheep made more than six cents per pound here. At that time the railways were not so extended. There was a boom on this Coast soon after Vancouver was burnt, and sheep were worth seven cents in the spring. Since 1894 they have never been worth more than from five and a half to six cents. I have been feeding sheep for the last twenty years. In 1894 I contracted to feed over 400 at one and a half cents, weighed out above what they weighed in. One lot, with only about one-third Merino blood in them, did well; another, of full blood Merinos, did not gain a pound in weight.

As oats are worth from \$20 a ton for soft to \$25 for dry, and hay \$14 per ton, no one can feed for one and a half cents per pound and make a profit; in fact, he would not make above two-thirds of the value of his feed at six cents per pound. The time has not come here yet to get the balance out of the manure.

Another danger from purchasing sheep to feed is the scab. Years ago, when I bought sheep for feeding only, I often got the scab, but with a few bottles of tobacco water I could check it un-

til they went to the butcher. A few years ago, 1,800 sheep were bought for a large farm, scab broke out, and dip did no good; the scab was only got rid of when the last sheep was sold. It is very unsafe to get any sheep from Eastern Washington or Oregon, if anyone has a small flock of his own. The board fences harbor and help to spread the disease. If he purchase from a clean flock, the railways, as a rule, neither clean nor whitewash a car, and the disease is spread in this way.

British Columbia.

# Hogs in Canada.

A writer in the American Swine-breeders' Journal has the following to say of Canadian hog-raising:

"We mapped out a trip through the rural districts of Ontario, Canada, to see the hogs, the meat markets and the packing-houses of that country, so that I might know for myself if what I had heard is true as to the kind of hogs and the character of pork used there and that shipped away.

"We visited a number of breeders and travelled four or five hundred miles through that part of the country where they raise the most hogs, and saw something like two thousand head of swine on the farms. Of these herds eight were Berkshires, one Duroc-Jersey, seven or eight red pigs, and the others were all large Yorkshires. I saw several that weighed 700 or 800 pounds, and one weighed 850 pounds. I saw the meat at the packing houses and in the market

packing-houses and in the market. "It is unlike any I ever saw here. The sides are interlain with streaks of lean and of equal width, extending from back to belly, thus making the finest bacon in the world. Our native breeds can not be fed or treated so as to make any bacon even to resemble it in structure or character. The ham and shoulder is marbled throughout with lean and fat. I never saw anything like it. I was eating dinner with a farmer and breeder, and I admired the looks and taste of the meat, thinking it was pressed fowl, and it was so delicious and so unlike any that I ever saw that I asked the lady what it was, and she replied it was only a roasted pork shoulder. Just imagine my surprise, for I thought any poor fool would know roast pork. I carried some of it home, and fooled several. My family ate it for venison, and each one remarked that they didn't know. venison was like pressed fowl in taste and appearance. It is more like pressed chicken than like our native pork."

# FARM.

# The Season's Yield at Agassiz, B. C.

The advantages to the newcomer to the lands of the Coast Province in having the records of an Experimental Farm to consult cannot be overestimated; in fact, the old-timer can consult with interest and profit to himself the results of trials with new and old varieties of grains, roots and fruits. The results from this farm are very good, when one takes into consideration the character of the soil, which in its natural state, with big outcroppings of gravel, is as poor as can be imagined. The soil here calls for the practice of an up-to-date agriculture, in which clover, live stock, and the use of manure by top-dressing, and the use of slag, have prominent places.

A perusal of the yields and remarks on the grains will be valuable to the farmers in any part of B.C. The early publication of such allows him to get seed in time for the 1904 seeding. As has often been mentioned in the "Advocate," when discussing editorially the work of the experimental farms, the abandonment of the testing of so many varieties year after year would be an advantage. In the list of yields for 1903, a large number of the poorer-producing varieties have been omitted, yet the reports issued year after year show that such comparatively valueless croppers have not been dropped. In the matter of fruit trees, several varieties have shown that they are worthless from the market standpoint, owing to the ease with which they fall a prey to the attacks of parasitic and fungoid pests, in spite of spraying and other attempts to suppress such pests. Yet there seems to be no cessation in the tests with such varieties. The work of the farm would be far more valuable than it is now, if to such varieties were meted out the punishment accorded to unfruitful trees in Holy Writ, and in the place of them an orchard planted with varieties whose worth is based on their commercial and pest-resisting values. Grains weigh well at this farm, as far as can be judged by the hand. If a standard weigher for estimating weight per bushel, such as is to be found at every country elevator on the prairie, were provided, the reports issued by the superintendent would be still more valuable. The past season was peculiar, inasmuch as owing to the lack of

sunshine, and frequent showers at the beginning of the ripening period, the earlier-maturing varieties were held back, while later varieties, not as far advanced, were enabled to catch up during the cloudy, damp weather, thus bringing the different varieties in almost at the same time.

Improvements in the way of clearing are being steadily made, such involving a lot of heavy work. Some stumps were seen, the roots from which extended over half an acre; all must be gotten out before the plow can do satisfactory work. The orchards on the ledges are demonstrating that these semi-inaccessible areas can be put to profitable use.

## Our London Letter.

Since my last letter the Smithfield Club Show, the great agricultural event of the year, has taken place, and can only be described as an unqualified success. The exhibits, taken as a whole, were so near perfection that it required a very nice discrimination to satisfactorily award the prizes.

As usual during the Smithfield Club show week, the Central Chamber of Agriculture and the Farmers' Club held their annual dinner, at which all the leading men in this particular branch of industry were present. The Earl of Warwick was in the chair, and among those present were Lord Onslow, Mr. H. Chaplin, and Major Craigie. In the course of a speech the Minister for Agriculture took occasion to observe that he thought that the legislation which excluded foreign and colonial cattle from our live markets had "encouraged " the home breeds. As the majority of those present at the dinner were breeders, noble lord's sentiments were applauded. Lord Onslow, judging from his speech here and his promise to the Scotch graziers and farmers three weeks ago, has no settled convictions in the matter at all, and trims his views to suit his audi-

Sir Richard Cartwright's speech in opening the Federal campaign at Toronto has created quite a stir in tariff reform circles on this side, and is being extensively quoted on political platforms and in the press throughout the kingdom Coming as it does from a man who has held such strong Cobdenite views in the past, it is bound to be of great assistance to Mr. Chamberlain in promoting his preferential scheme of tariffs.

Canada and Canadian matters have been very much to the fore this week. On Monday Lord Brassey delivered an address on Canada at a special meeting of the London Chamber of Commerce, and among many good things he said: "I am glad we took occasion to emphasize the need of a fast steamer service between England and Canada. This project is of such paramount importance that it seems incredible there should be any long delay in establishing it." Lord Brassey also pointed out how dependent upon each other Canada and Great Britain were, more particularly with regard to agricultural produce. His words were: "The sum of agricultural success in Canada was the purchasing power of the motherland."

The reports from all parts of the United Kingdom bearing upon the crops for 1903 all tell the same dismal tale. Owing to the abnormally wet season the grain crop is not an average one, and in many places it has simply been carted into the yards to be used as manure. The root crops have been a failure, and winter keep is very scarce. The only redeeming feature of the year has been the abundance of grass. The outlook for the farmer is anything but promising, as the acreage of wheat sown is far short of last season, and the present prices of wheat, wool and cattle are most ruinous.

Since Mr. Seddon's precious scheme for the opening of shops to retail New Zealand lamb and mutton has receded into the background, the idea has been taken up by "The British-New Zealand Meat and Produce Co., Ltd.," and very shortly operations will be commenced in London and the larger provincial towns. The capital of the company is £150,000, and from the prospectus I gather it is formed for the purpose "of supplying direct to the consumer N. Z. meat, butter, cheese and other descriptions of produce as may be deemed advisable.

MARKETS.—At Deptford foreign cattle market on Thursday the quality of the animals on offer was rather above the average, but with few exceptions were not so good as buyers would have liked for the Christmas trade. The extra good quality bullocks met a ready demand at 12½c, to 13½c., while the tops of other bunches cannot be quoted at more than 12½c., and out of the total number (1721) shown 343 head were held back, salesmen not caring to let them go, on the off chance of the weather hardening up. There were also 540 sheep and 267 lambs on the market, but these were the every-day class, and the best pens of the former may have made a bare 12c., while the lambs are quoted 15c.

The butter market during the past two weeks calls for no special remark, the business done

being only moderate. Inquiry for Canadian butter is rather small, the finest qualities being officially listed at 19‡ to 20‡c.

0

Bacon, too, has been steady at values current a fortnight ago. As usual, the principal enquiry is for smallest and leanest descriptions. The majority of buyers evidently took full advantage of the recent slump to lay in stock sufficient to carry them over the holiday season. Prices for the very best Canadian bacon are 101c. to 10 1-3c.

The general quietness pervading the cheese market has had the effect of weakening prices somewhat. There is, however, still a demand for fine Canadian cheese at 10½c. to 10½c., but in view of the large stock on hand buyers are not disposed to do much at these rates. The best

fall makes are being held for 11c.

Canadian long-cut (green) hams are in fair demand at 131c. for best, and seconds 12c.

The poultry trade, as was to be expected, is

The poultry trade, as was to be expected, is now very brisk. Turkeys are scarce, and very dear. For select Normandy breeds as much as 36c. is being paid per pound. Geese are not in much favor at 12c. per pound. A. J. SCOTT. / Dec. 19th, 1903.

# The Potato Crop.

To the Editor "Farmer's Advocate":

Sir.—Being especially interested in potato culture, I was pleased to see your article on "The Potato Crop Failure," in a late issue of the "Advocate." My opportunities for observation regarding the condition of the crop enables me to not only endorse, but, if possible, to emphasize what you say, viz., "The potato-growing industry has come to a stage where something must be done to prevent the rot, if a crop is to be insured in seasons that are not the most favorable." I should like to supplement this by adding that the condition of the potato, as we find it to-day, demands that not only "something must be done to prevent the rot," but that doing something to cause the rot must be prevented. After careful study, and summing up the cause and effect, as shown by careful tests made in various localities and under different conditions and varieties of soil, seed and season, I have been forced to the conclusion that the poison we have been applying for upwards of thirty years is very largely the direct cause of the blight, rot, and weakened vitality of our potatoes ..

This view of the matter has been confirmed by the statements of many thoughtful farmers who have the same opinion. It is with much regret, therefore, that I notice the ending of your article above referred to, as if it is followed the good it might do will be neutralized by the damage by the poison which is mentioned in such a way that it seems to take it as an indisputable fact that Paris green must be used. Fortunately, this is not the case, and it is so much so, that no person can grow perfect potatoes who uses Paris green on the plants. This point can be and has been demonstrated beyond the possibility of doubt. It is a fact that cannot be denied or disproven, that potatoes treated with Paris green carefully, do not live as long by ten days to three weeks as they would if not poisoned. No potato that is damaged by any cause to this extent can pro-

duce as many or as good quality of tubers.

Toronto Co., Ont.

C. M. RICHARDSON.

# "Kno Bug" Analyzed.

To the Editor "Farmer's Advocate":

Sir,-Since the meeting of the Experimental Union at Guelph, I have had another sample of the insecticide Kno Bug, which I know to be perfectly accurate, analyzed. This one contains arsenic equivalent to 2.49 per cent. of Paris green. Therefore, Kno Bug selling at six cents per pound, the Paris green in it would cost \$2.41 per pound. This, of course, is not allowing value for the potassium nitrate which it contains, or for the gypsum which makes up a greater part of the mixture. The Paris green is, however, the only substance in it which will kill bugs. potassium nitrate will feed the plant, but will have to go into the soil before it will do that. I am sorry that I did not have these results in time to allow them to be published along with the others in the issue of the "Farmer's Advo-

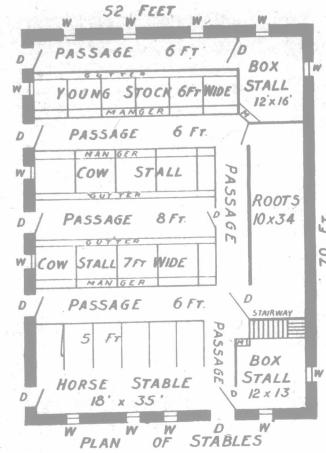
cate" just received. R. HARCOURT,
Ontario Agricultural College. Chemist.

# Special Clubbing Rate.

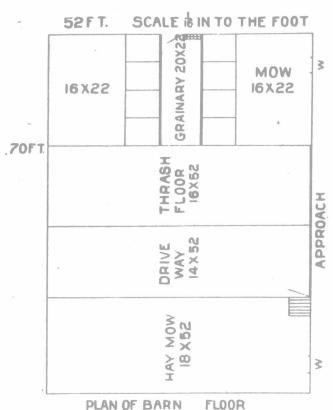
In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. Regular and equation price, \$1.50 per year (52 numbers). Same prospective subscribers a copy of the weedly. Theory farmer should have it. Address, "Farmer's Advocate," London, Ont.

## Barn Plans.

One of our subscribers, Mr. Thos. Johnson, Perth Co., Ont., commenting upon the stable plan published in the December 1st issue, says, "The general plan is too narrow and too long, the



boxes too small, and the stalls too narrow," and has supplied us with the accompanying plan, which he considers a model. In many respects this plan answers well, but to be thoroughly modern would require a feed-room, silo, more room for loose cattle and in the manure alley. Doubtless this plan could be modified to provide for these suggested amendments. Evidently we have not yet obtained a perfect stable plan.



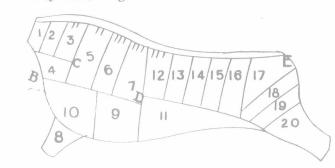
# Cutting up Beef.

Would you kindly give in your next issue a cut, both of a front quarter and hind quarter of beef, marked off for a twenty-share beef ring?

Waterloo Co., Ont.

N. S.

Ans.—The accompanying chart is arranged to give each customer a roast and a boiling piece, and is eminently satisfactory wherever used for a twenty-share ring.



# A Year with Sugar Beets.

That the sugar-beet industry is continuing to attract an ever-increasing degree of interest on the part of the agricultural world in general was rather strikingly evinced by the flattering numbers who, at the summons of the Ontario Sugar Co., wended their way Berlinward to the beet-growers' convention held there during the fourth week of November, when the process of manufacture was to be seen in operation.

The addresses were many, and to the point, discussion of the subject being entered upon not only by practical agriculturists from every part of the Province, but also by others whose names, as efficient promoters of the agricultural interests of the country, are household words among the progressive farmers of the Dominion. Among these may be mentioned Mr. C. C. James, Deputy-Minister of Agriculture; Dr. James Mills, of the Ontario Agricultural College; Prof. Harcourt, also of the O.A.C.; Mr. Geo. C. Creelman, Toronto; and Mr. Simpson Rennie, Toronto.

Mr. S. J. Williams, managing director of the Ontario Sugar Co., gave an interesting account of the rise and progress of the Sugar Company's venture at Berlin. No spot in Ontario, he said, was more favorable for the establishment of a sugar-beet factory than Waterloo. The capacity of the factory which had been established there amounts to 60,000 tons, which amount, however, has not yet been supplied wholly by the farmers of Waterloo. The securing of this quantity of beets means the annual payment of \$300,000 to beet-growers; hence, if Waterloo farmers want this sum to remain in the county they may obtain it by raising sugar beets for the factory. It had been objected by some that the company was not paying enough for beets, and the fact pointed out that in Michigan the factories pay at the rate of \$4.50 per ton for twelve-per-cent. beets. To this he would make answer that the price for beets in Ontario is regulated by the Government, to safeguard the farmers' interests. Last year the Government compelled the payment of \$4.00 per ton, whether the beets tested up to the twelve per cent. standard or not. The second and third years the growers are to receive 33 1-3 cents for every point over 12 per cent. in sugar that their beets may test. The greatest reason why the Ontario Co. could not pay \$4.50 per ton for 12 per cent. beets as in Michigan, is that the price of sugar is always higher there than in Canada. If Canadian factorymen could get the American price for sugar, they would gladly pay the higher prices. However, he was not discouraged. Many of the best farmers had renewed their contracts. There was a man in the audience who had 24 acres of wheat on which he realized \$300. Ile also had 10 acres of beets, for which he received \$546. Mr. Williams could point out hundreds of similar instances.

Mr. Simpson Rennie gave some very practical observations. He called attention to the fact that some soils are not suited to the raising of sugar beets-among these being a new soil with only one crop before the beets. He considered that more money might be made from an acre of beets than from a similar area of oats, barley, or wheat. Allowing 12 tons per acre (which is below the average yield), at \$5.00 a ton, the amount which the beets here are yielding by percentage, the grower gets \$60 an acre; supposing the cost to be even \$30 per acre, he still has \$30 profit. Each of Mr. Rennie's two sons this year grew an acre and a half of beets. One cleared \$87 after paying for seed and freight, and the other \$124.90.

Prof. Harcourt dwelt more especially on the chemical and botanical side of the question. He had tested, privately, a sample of both cane and beet sugar, and had found their constituents to be identical; hence, there could be no possible truth in the assertion sometimes made, that the cane sugar is stronger or sweeter than the beet sugar. An important consideration, however, is that the best possible cultivation should be given to sugar beets. The beet, as we have it, is the result of 100 years of nurture, and unless given the very best treatment, it will go back. It has been proven that heavy manuring just before putting in the beets results in a heavy yield of big beets of low sugar percentage. A test of this showed 18 tons to the acre, beets testing 15.07 in sugar. Beside it was a sample on land on which the manure had been longer in the ground; and these tested 17.05 and yielded 16 tons to the

Mr. Wm. McQuillan, of Dunnville, advised growers not to try too large an acreage. Two

acres well done are better than four half done.

Mr. C. C. James, Deputy-Minister of Agriculture, stated his conviction that the growing of sugar beets will pay the farmer. The success of Canada depends more upon the development of its agricultural resources than upon any other branch, and the raising of beets is an opportunity lying at the very feet of the farmers. Farmers should give support and co-operation to every movement that will tend to raise the standard of agricultural resources. Mr. James especially called the attention of the farmers to the fact

uing to

rest on

ral was

ig num-

Sugar

e beet-

o fourth

nanufac-

point,

on not

part of

imes, as

erests of

the pro-

ng these

Deputy-

of the

ourt, al-

Coronto;

r of the

account

mpany's

he said,

t of a

capacity

d there

nowever,

farmers

itity of

0,000 to

rs want

may ob-

tory. It

any was

pointed

t. beets.

price for ernment,

ast year

of \$4.00

e twelve nd third

cents for

at their

vhy the

n for 12

he price Canada.

merican

e higher

ontracts.

had 24

He also

ed \$546. f similar

practical

the fact ising of

oil with

nsidered

acre of

arley, or

h is be-

ton, the

by per-

upposing

has \$30

his year

cleared

and the

on the

on. He

ane and

uents to

possible

that the

he beet

wever, is

be given t, is the

as given

It has

fore put-

d of big

of this

ng 15.07

land on

ground;

is to the

advised

Agricul-

wing of

uccess of

ment of

y other

ortunity

Farmers

o every

ndard of

specially

the fact

done.

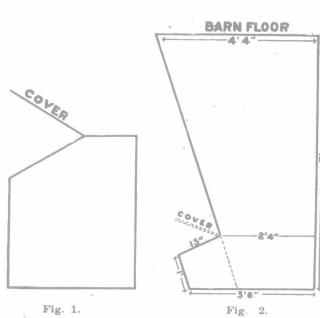
Two

that beet-growing is not hard on the land. The fact should be realized that the sugar beet derives its chief nutrition from the air, is, in fact, crystallized air. When the farmer sells it he is not selling a particle of the soil strength, only the air products. Sugar-beet growing is one of the branches of higher-grade farming.

# Our Old Chop Box and the New One.

By D. Lawrence.

We had an old-fashioned chop-box in the barn with a sloping top, like a writing desk (Fig. 1), holding from 18 to 20 bags of chop. It was very awkward to get the chop from the bottom. We had it under our floor grinder, which was set on the barn floor, but we had to put up and take down a spout every time we ground any grain, and even with the spout or pipe sometimes a considerable portion of the fine chop would blow away. We built a new one, something like Fig. 2, of 2x4 studding, lined with square matched one-inch spruce, with the dressed side in, so that the chop would slide down easier. The new box is a very great improvement. Being up close to the barn floor, there is no opportunity for waste by fine chop blowing away, because we grind by wind-power, and there is always some draft; then by the chop going in at the top we are always using the chop that was ground first. not have to stoop down and lean over the edge of the box to get the last of the chop out; we utilize the space under the barn floor that was not of any service in the case of the old box, and we can now store away a much larger quantity of chop in the same floor space. It will hold



about 50 bags instead of 20, the maximum capacity of the old box. We built a partition in the box, so that we have a smaller compartment for bran, the larger one being for oat chop. We cut a small door in the floor over the small compartment, so that we can empty the bran from We built the bottom of our box about eight inches from the floor of stable, so that the cat could get in in order to have an interview with any rats or mice that might presume to operate there; it might be an improvement to make the bottom at least 12 or 15 inches from the floor. The improvement is worth much more to us than all the cost, and we want others to reap the benefit of our experience; if you improve upon our plan and make something still better, we ask of you to write it up and send it to the greatest agricultural journal

in the world—the "Farmer's Advocate."
[Note.—The "Farmer's Advocate" will be pleased to receive from its readers concise descriptions, with sketches in pen and ink or pencil, from which cuts can be made to illustrate any handy contrivance for use about the farm, preferably those actually tested and found valuable by the writer. Suitable remuneration will be made for those found acceptable.—Editor.1

# Special Clubbing Rate.

In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. lar subscription price, \$1.50 per year (52 numbers). Show prospective subscribers a copy of the weekly. Every farmer should have it. Address, "Farmer's Advocate," London, Ont.

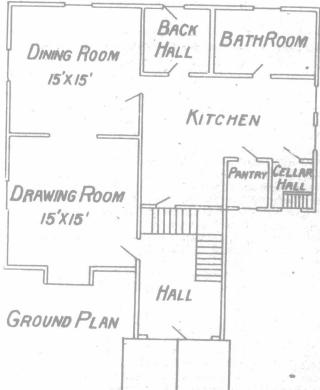
When success causes "swelled head," then success in the history of that "patient" is at an end. He who thinks he has nothing more to learn will learn nothing more.

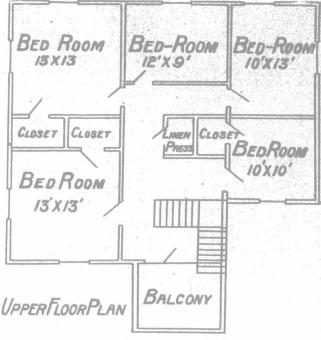
# A Modern Farmhouse.

The accompanying plans are for a farmhouse suitable for a farm of one hundred acres, the cost of erecting the structure to be within \$2,000.

In building with a limited amount of capital to expend, one of the main considerations to be borne in mind is to make the building of no greater dimensions than is really necessary, in order that something of an overplus may be left to spend on the interior fittings, etc., as these details are so powerful in making a home really comfortable. So often we find a house of large, showy exterior, in which there are rooms practically unused, and at the same time there is a lack of finish and a scarcity of small conveniences







about the everyday rooms. The same amount of expenditure on a more compact building, with good appointments, would have given better effect, and at the same time been more economical when furnishing and replacing the wearing parts. The question, too, of labor in cleaning also makes it imperative that there be no more house-room than is really necessary. With a plain rectangle as a plan, we get the greatest interior space at a minimum cost, but, unfortunately, this almost means an ugly exterior. The broken outlines of angle walls, rounded corners and crossing gables

give a far more artistic effect outside, but at the same time cuts into the space inside the house, and unless planned on a large scale, gives small rooms, which can only be overcome by considerable extra outlay.

The plans here shown aim at striking the happy medium. The outlines of the house are fairly broken, and at the same time the space taken up is used as far as possible to aid the general scheme of the plan. The effect would be solid and substantial, as over-ornamentation, such as elaborate turned-work on the porch and balcony, has been purposely left out.

The foundation and cellar walls are of cement, one foot thick. The size of the cellar is 22 ft. by 20 ft., which would not necessitate it being under the sitting-room and dining-room, which would be found an advantage if roots were stored. The openings to the cellar windows will also be cemented on the sides, a thickness of four inches being ample. These openings should be of a size to allow of the easy getting in and out of an ordinary crate, and they should be provided with wooden shutters, which can be let down in the event of continued stormy weather.

The structure of the house is the usual framed pattern, consisting of 2x4 scantlings, weather boarded, felt papered, and clap-boarded on the outside. It is presumed that lumber can be obtained at a reasonable figure, but the plans can as well be used for roughcast or cement, should the building be done in a district where lumber is high in price.

The shingled roof is one-third pitch, which, although somewhat steep, will be found advisable, as such a roof is more lasting than a flatter one. The hall is brought forward eight feet, which

gives more room to the apartments in the rear of the house, and also gives pleasant prominence to the entrance, and at the same time provides for a balcony opening from the upper floor.

The drawing-room, entered from the hall, joins the dining-room by an opening five feet wide, which can be closed on occasion by rolling-doors, or simply by curtains hung within the opening. If rolling-doors are used, care should be taken that the grooves in which they work are completely boxed in from the main partitioning, or an unpleasant draft will be caused.

The kitchen is provided with a back hall, which would be a suitable place for a pump over a cistern of rain-water. It would be well, too, to fit this back hall with a seat or bench, as a suggestive place to change farm boots before coming into the house. The bath-room, also opening from the kitchen, is purposely placed on the ground floor, as in a house of this cost it can be more easily fitted with water supply, and being adjacent to the kitchen-stove, hot water can easily be obtained, and the room will also be warmed from the same source.

The plan of the upper floor speaks for itself, Three of the bedrooms are provided with good closet-room, and a linen-press opens from the passageway. The glass door and windows opening onto the balcony light the passage, and also provide good ventilation to the surrounding rooms.

For interior finish it is suggested that hardwood be used for all the floors, and pine for the doors, window mouldings, etc. The hardwood floors, when oiled and polished, amply repay the as rugs comp far cheaper than carpets, and the saving of labor in cleaning, together with the more hygienic condition generally, are considerable items. The pine fittings for the rest of the house are capable of great variation by colored stains and paint, and will by these means produce far more harmonious results in conjunction with wall papers and kalsomine than hardwood with its more restricted shade of brown.

The bay-window in the drawing-room would be a suitable place to fit a low seat, running round the three sides of it.

The dining-room walls should be wainscoted about three feet high, as the constant moving of chairs which must take place in this room very likely to injure the walls. A wooden wainscot also gives an air of comfort and solidity to such a room when it is painted in accordance with the general scheme of decoration.

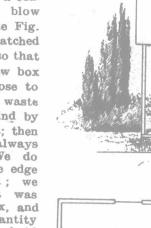
The kitchen should also be wainscoted in a like manner.

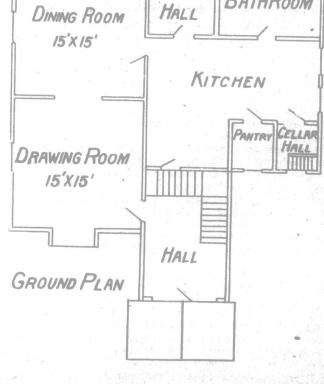
For exterior finish the roof is stained a deep red, and the gables painted the same shade; also the small gable of the porch and the projecting roof of the bay-window. The main body of the house is painted a deep buff color, with dulf green trimmings to the windows, etc.

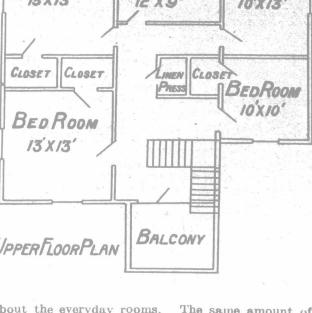
The small windows each side of the entrance door, and the door to the balcony, are glazed with colored "shell" or "cathedral" glass, as also are the upper panes of the bay-window in the sitting-room.

The finished house will be found to be roomy, well ventilated, and convenient. The outside of fect will be artistic and substantial, when set off by well-planted trees, a lawn and flower garden. The inside will be capable of decorative treatment that will be beautiful, and at the same time "homelike," in every good sense of the word. Lincoln Co., Ont.

A. E. GLEED.







# The Canadian Farmer and Preferential Trade.

Would preferential trade within the British Empire be beneficial to the Canadian farmer? Here is a scheme which is among the possibilities of the near future, and it behooves the farmers of Canada to look well to their interests, so that if they be asked to express an opinion on the question, or mark their ballots for or against the proposal, they may do so intelligently.

In the first place, what is preferential trade? It is merely the lowering of the duties or taxes upon imports by any country in favor of the products of any other country. Thus, on Canadian wheat going to the United States for consumption, a duty of almost fifty per cent. of its value is levied. The result is that very little wheat is disposed of in that way. Now, under a preferential tariff, part or all of this duty would be remitted, while at the same time wheat from other countries would continue to pay the fifty per cent. tax. In other words, Canadian wheat would have a preferred position in the United States market.

Now, apply this to the British Empire. Great Britain, for economic reasons, has for the past fifty years allowed foodstuffs to be placed upon her markets almost free from duty. Foodstuffs from Canada, United States, Russia and Argentina met upon equal terms. But with preferential trade all this would be changed, and a tax would be levied on products coming from countries outside the Empire, while those from the colonies would still be admitted free.

How would this treatment affect the farmers of Canada? They, in conjunction with their brother farmers in other colonies, would capture a market which is now open to the world. selling price of any article is regulated by the supply and the demand. If the supply is limited and the demand is great the price will be high. Suppose Britain imposed an average tax of 10% on foodstuffs from outside the Empire, the colonial farmer would then have such a decided advantage in the British market that he could hold it without difficulty. If the prices of foodstuffs in Britain remained the same as now the foreign farmer would receive the present price, less the duty, which would so reduce his profits that he would be forced out of the race. But the demand in Britain would be the same; it is a constant quantity. Therefore, as the foreign supply lessened, the colonial supply must either increase or prices will be raised. In either case, the Canadian farmer would gain. Until the price of foodstuffs was raised to the present level, plus the duty, the colonials could easily hold the market, and afterwards would still have the 10% duty more profit than their competitors.

Now, is the market worth capturing? Take, for example, butter, a representative Canadian product. In 1902 Canada exported to Britain about 32 million pounds of butter. The total amount imported into Britain that year was in round numbers 445 million pounds, so that Canada sent about 7.19 per cent. of the whole. The other colonies sent about 6%, and foreign countries provided the remainder. Under a preferential tariff almost the whole of this immense trade would fall to Canada.

The Canadian bacon trade is a good example of the effects of the British market. A few years ago bacon was almost unsalable in Canada, and the possibility of disposing of live hogs at \$7.00 per cwt. was never mentioned. Yet, to-day this price is not considered beyond reach. What caused the change? The Canadians captured the British market. The lesson should not pass unheaded

But there is another side to the question. If Britain gives the colonies a market for foodstuffs, they must throw open their markets to British factories. What effect would this have upon Canadian industry? Some one portion of the world is better situated than any other place for the manufacture of a certain article. What made Britain the factory of the world? Britain was better situated than any other country to become such. What makes Manitoba the wheat field of the world? Manitoba has more favorable conditions than any other country. So, if conditions in Britain are such that certain articles can be manufactured there cheaper and better than here, our factories will suffer. Take the woollen trade: Undoubtedly, with cheaper labor, etc., Britain must capture the woollen trade, but will the Canadian farmer suffer? The demand for woollen goods is constant, and it is not affected by one woollen mill being closed. The supply is affected, and another mill will be built in a more suitable locality. The demand for wool in a raw state is equally great during the change, and if the farmer is now paying a tax, either by getting a smaller rice for raw wool or paying a high price for the manufactured article because of poorly located factories, he will benefit by the change. True economy is secured by a judicial handling of all the factors in an enterprise, and in the end true economy herefits the great mass of the people more by placing woollen goods on the market

under the best conditions than false economy by locating a woollen mill where a few will profit.

But, on the other hand, the Canadian manufacturers of woollen articles would welcome the preferential tariff, because it would give them a better market.

Apparently, the Canadian farmer need have no fear of preferential trade.

Dufferin Co., Ont. JOHN S. BRIJNDIGE.

# Not for Joseph.

To the Editor "Farmer's Advocate":

Sir,-An editorial, entitled "The Preferential Propaganda," in your Dec. 1st issue, calls for comment, and I crave your indulgence in replying. In the first place, it may be pointed out that the Southern Standard, in describing New Zealand as a producing country, wrongly implies that England (or some other country which buys from N. Z.) is not a producing country. The meaning intended, or which should be intended, is that N. Zealand is a producer of a certain class of articles, while England is a producer of a certain other class of articles, and that, consequently, a trade, or interchange of commodities, is possible between them. So, when the Standard speaks of the "Vast producing areas of Canada, etc.," it is thinking of food products; but the producer of clothing or tools is no less a producer than one who grows wheat, and he should not be put in the obnoxious category of non-producers, of whom there are, it must be admitted, everywhere

With so much promised, it may be taken for granted, in the Standard's words, that "it is difficult to see how a system of reciprocity is going to injure any class of the Empire's subjects." Reciprocal trade is a measure of free trade, and so far facilitates the proper interchange of commodities. But the trouble with the Imperial Preferential Tariff plan is that it proposes to encourage trade between members of an Empire scattered and separated geographically, commercially, racially, and in almost every way except the accidental political one, at the expense of discouraging trade between countries connected geographically, commercially, racially, and in almost every way except the accidental political Any proposition to encourage trade within the Empire should be heartily endorsed, but when there is implied a discouragement of trade without the Empire, some of which is of vastly more importance than Imperial trade, then we should

Therefore, in my judgment, Mr. Chamberlain's heroism dwindles to something very paltry and insignificant, as, indeed, one would expect who knew anything of his history. He may be stirring the heart of England, but it is not the heart of sober England. Claptrap sandwich men parading the streets of Birmingham, and all that sort of thing, does not indicate anything but a sort of economic squall, due, perhaps, in part to the laudable generosity of those countries which dump their goods in England; which dumping has contributed much towards England's rich which the people who don't think for themselves are being persuaded to reject. I fear that the robe of heroism has considerably cheapened when Mr. Chamberlain's fiscal splurge entitles him to be so clothed.

You say, too, that "Preferential treatment by Britain of Colonial agricultural products would be a great boon to the Canadian farmer." Per-But such treatment necessitates Britain's shutting her doors to the rest of the world, and' perhaps the British food consumer would object to paying us more for our butter, beef and bacon than he can buy them for elsewhere. Perhaps, even his "patriotism" or love for the Empire will not go as far down as his pocket. dian manufacturers, also, might be unwilling to concede the reciprocal advantages and have Canada thrown open to British cloth, tools, etc. Their loudly-voiced expressions of loyalty to the mother country might not touch them so deeply as to render them generous, or even fair, towards the British manufacturer. We must give if we expect to get a preference, and most people ig-

nore the giving and clamor for the getting.
You say, finally, that the Canadian farmer is doing marvellously well, and in your leading editorial speak of the cheapening in the cost of transportation as removing one of the farmers' problems. In view of the facts brought to light at the recent meeting of the Fruit-growers' Association, it would seem that the transportation problem is yet a live one, which must be solved before the farmer can justly be said to be doing marvellously well. He is doing as well as he can under the burdens which he has to bear, and he should look sharp lest Mr. Chamberlain's scheme add another to his already overtaxed strength.

dd another to his already overtaxed strength.

Brant Co., Ont.

W. C. GOOD.

## Careless Writers.

Last year we called our readers' attention to the many complaints from those who advertise with us, that during the year they get many thousands of letters which are deficient in address. Either the state is left off, or no town or county is given, and many letters are without a name signed to them, or if it is signed it is done with such haste and carelessness as to be unintelligible. It should be remembered that it is far easier to read a poorly-written letter than it is to decipher the name; consequently, the utmost care should be taken to write the name slowly and carefully, without any flourishes. Flourishes are actually an abomination. Another source of annoyance and delay in making returns is the carelessness or lack of knowledge on the part of the shippers sending goods to market, in not putting the shipper's address as well as the firm you ship to on the bundle or box. Besides this, the shipper should send the original or duplicate receipt, and letters of advice describing the shipment; and be sure to stamp the envelope. Some neglect this, and some put on only a onecent stamp. Such letters go to the dead-letter office. In conversation with the Northwestern Hide and Fur Co., of Minneapolis, Minnesota, recently, they informed us that they had several hundred statements of hides, furs, etc., awaiting claimants for want of proper address. If any of our readers are among this list of shippers, write them at once. They do not want goods for nothing, neither does any other honest firm.

# Post-Graduate Course for Farmers' Sons.

By David Lawrence.

Doctors and trained nurses take post-graduate courses and believe that they derive great benefit therefrom, and why should not farmers' sons?

Let us discuss the matter. Very many of our farmers' sons are brought up on the home farm, and are kept so busy all the year round that they scarcely ever get off the farm to see what other farmers are doing; much less do they get any opportunity to study up the methods of any one but those in their immediate neighborhood, and the best of farmers are apt to get into ruts. I have known many young men, brought up exclusively at home, who would have been very much benefited in every way by a change for a year or two, and they would have returned to the old home very much improved by the change.

But to be practical: How are we to manage to get this post-graduate course for our sons? The Agricultural College at Guelph is always pretty crowded, and then it costs money for the course of instruction received, and, besides, there is perhaps more of the theoretical and less of the practical part than many of the matter-of-fact fathers of the farmers' sons would desire. This is no fault of the management of the College, for there are such large numbers of the students that it is an utter impossibility to set them all at work, excepting, perhaps, for only a very short portion of the time.

My plan is something like this: Let the farmer's son hire out for a year with the most advanced agriculturist he can find who makes a financial success of his operations; at, say, from 50 to 100 miles from his own home, so that there would likely be a change in the methods pursued on the farm. Let him work faithfully for his employer and study his methods, and think out the reasons why this or that is done so; keep a diary of every day's work, making a memorandum of everything that he thought to be of special interest. If he does this faithfully and well, and makes the most of the opportunities at his disposal, I venture to say that our young man will return home with his range of mental vision very much broadened and enlarged, and his worth as a practical farmer very much enhanced. He should not remain less than one year on a farm, but perhaps it might be well to take a second year with another good farmer in another county, so that he could get a still wider experience.

Do I hear the father say, "How can I spare my boy? Hired help is very hard to get, and sometimes not very good when you do get it." Well, I believe that it will pay us to make a sacrifice in this direction. I speak as a father now, for being fully convinced of the benefits to be derived from the plan I am outlining, I am intending to arrange for such a post-graduate course for my own boy. But could we not manage to exchange boys, or, rather, young men, for a year? For instance, a farmer's son in the neighborhood of Guelph might hire out with a farmer in the County of Middlesex, and the son of the latter might hire out with the farmer near Guelph who was minus a boy. So that my plan would resolve itself into a change of boys for a year. Of course, each would be regularly hired at so much a year, and would be expected to give faithful service and good value for the money paid. Another question might arise: How are these farmers who wish to exchange sons for a year to be brought into communication with one D 1866

ntion to

advertise

t many

t in ad-

town or

ithout a

ed it is

this it

ter than

the ut-

he name

ourishes.

Another

returns

on the

arkēt, in

ll as the

Besides

ginal or

escribing

envelope.

ad-letter

hwestern

innesota.

d several

awaiting

If any of

rs, write

oods for

s' Sons.

graduate

t benefit

y of our

nd that

ee what

they get

s of any

borhood;

nto ruts.

t up ex-

en verv

re for a

urned to

e change.

manage

ir sons?

always

for the

les, there

er-of-fact

College,

students

them all

a very

Let the

the most

makes a

ay, from

so that

methods

faithfully

ds, and

is done

naking a

ght to be

fully and

mities at

ur young

f mental

, and his

enhanced.

ear on a

take a

another

vider ex-

I spare

get, and

get it."

make a

a father

enefits to

g, I am

-graduate

not man-

men, for

in the

with a

the son

mer near

my plan

bys for a

rly hired

ed to give

How are

ns for a

with one

This

sons?

rm.

another? Why, what is a more natural sequence than that the "Farmer's Advocate," which is beyond all doubt the best and greatest agricultural journal, should open up a column for this very purpose, and make a small charge for a short advertisement that would bring the two parties together, who could then exchange references as to their Christian character and moral worth, which features should always have a first place on the programme.

# DAIRY.

# Slow-churning Cream.

Would like some information concerning my cream. At times I have to churn for hours, although the cream is previously heated over the stove to 70 or 75 degrees. Cows are fed mangolds and straw. Would the fact that cows are far advanced in lactation make any difference? The milk is set in pans and kept in the pantry. Durham Co., Ont. SUBSCRIBER.

Ans.—The difficulty in churning may be due to one or more of the following causes:

1st-The cream may be too thick.

2nd-The feed these cows receive is not the best for rapid separation of cream and milk,

3rd-The cows are far advanced in lactation. 4th-The cream may be kept too long.

5th-The churn may be filled too full. 6th-The cream may not be ripe enough.

In the first place, we would by all means feed the cows some grain with their roots and straw,

and, if at all possible, hay also would be given. Coming to the question of the treatment of the cream: It is quite probable in this case that it is kept too long, and is not sufficiently When one examines the difference between sweet cream and sour or ripe cream, it is found that the change in the flavor and consistency is due to the growth or development of bacteria, and the particular flavor of any one sample is due to the extent to which any particular species of bacteria have developed, for in cream there may be bacteria of many different varieties. For instance, cream that is kept for some time in a cool place will, in all probability, develop a stale flavor; or cream kept a few days in a cool place, then warmed up to 65° or 70° F., will develop a characteristic ripe or sour flavor, the difference being due to the development of different varieties of bacteria in the two different cases. As the development of the stale flavor hinders the development of the more desirable ripe flavor, it is at once evident that conditions favoring the latter should be secured. To this end the cream should be skimmed when sweet and kept in a large crock. To this cream should be added a little clean-flavored sour milk as a starter, in order to encourage the growth of the ripening bacteria. After three or four days the cream should be warmed up to about 60°F. by setting the crock in a basin of hot water and stirring thoroughly. In some cases it would be well to add a little more of the starter at this point. This warming up encourages the rapid growth of bacteria, thus bringing about ripening. When the right degree of sourness has been reached, which only can be determined by experience, the cream may then be cooled down to churning temperature and churned about twentyfour hours after being first warmed up. neglect to stir the cream in the crock each time a fresh supply is added to it, as the stirring will produce a uniformity of flavor. As a general rule, the starter added will thin the cream down enough, and if churned frequently the churn is not so liable to be too full at any one time. should not make any particular difference whether the milk is kept in the pantry or cellar, provided both are clean and sweet, and free from offices. The length of time the cows have been in milk, no doubt has considerable to do with the difficulty in this case. Along in the fall and early winter the milk becomes more viscous, owing to dry feed and long lactation, and the globules of butter-fat becomes harder, these two conditions making it difficult to separate the fat from the milk. Feeding succulent food will generally remedy this. Ripening the cream in a short time also helps, but in extreme cases it may be necessary to thin the cream with warm water or brine.

# Clubbing Rate.

proved.

Care should be taken, however, not to make the

cream too thin, or conditions will not be im-

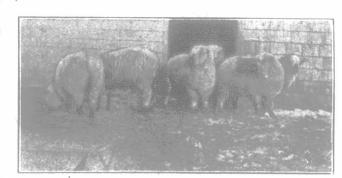
In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. Regular subscription price, \$1.50 per year (52 numbers). Show prospective subscribers a copy of the weekly. Every farmer should have it. Address, "Farmer's Advocate," London, Ont.

# The Dairy Cow.

By Mrs. Minnie Eshelman at the University Farmers' Institute at Long Beach, Cal.

Scientific dairying, as to the feeding of the cow and the handling of her product, has been the outgrowth of the specialized work of the dairy While the creamery man, with school experts. his manner of paying as little as possible for what the cows produce, has made the dairyman take out his pencil and learn to figure exactly what the cows do earn, so he has by calculating brought the keeping of the cows down to a business basis.

The beef strain is very hard to breed away from; even in the fifth and sixth generations of cows it often crops out when cows are fed for



Snap-shot of a Bunch of Shropshire Lambs.

Winners at the Maritime Winter Fair, Amherst, 1903. Property of Logan Bros., Amherst Point, N. S.

heavy milk production. Many a good grade cow has slipped off into beef when five or six years old, causing a loss-for it does not pay to fatten a beef on dairy rations. When we consider a good cow should produce 350 pounds of butter, worth, say, twenty-five cents a pound, or \$87.50 in a year, it is indeed killing the goose that lays the golden egg to sell her for cow beef at \$30 to You see, we do not believe in the generalpurpose cow, though it may seem presumptuous, for she has prominent advocates, but then, "seeing is believing," and we have never seen one.

Dairy Points.-Now, in selecting a cow for dairy use, one of the principal points is the stomach; it should be large and somewhat pendant-never set flush with the backbone, but always leaving a ridge. The stomach should suggest that the digestion is ample, and that the consumption of food can be pushed heavily and yet a margin of reserve force remain, for the drain from the heavy milk flow should be urgent, and

rough, disfiguring hump. The tail should be long and slender, and set high enough to carry out the high line of the pelvic arch. She should be thick through in front of the line to give ample room for heart and lungs, with large and well-developed milk veins, with a skin soft and full of oil. The head and neck should be fine and feminine, the breast without brisket or dewlap; the eye clear. prominent and full of gentle intelligence, while the under jaw should be strong and rather short.

The Udder.—The teats should be well placed, and of convenient size and shape, neither too large nor too small, and far enough apart to be easily milked dry. The two small rudimentary teats behind the four regular ones are a good indication for milk continuance in a cow. Swiss say that they indicate a cow will transmit her quality as a milker to her offspring.

The elaboration of the milk by the cow is a physiological mystery, about which little is definitely known. The alliance between blood supply and the milk shows, however, to have a copious supply of milk, there must be a correspondingly generous supply of blood. The blood flows from the heart to the udder, and passes into the milk veins, and back through the milk wells, near the fore legs into the body, returning again to the heart and lungs. The milk veins show by their size and engorged condition the amount of blood they carry. The milk wells should be large enough to admit easily the second finger of a man's hand.

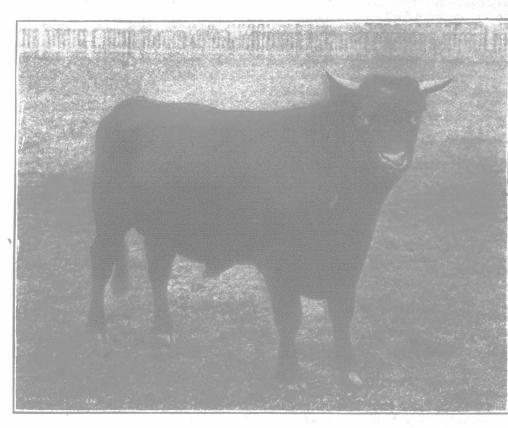
The front part of a cow's udder is often less well developed than the rear portion. Here is a loss in milk greater than is commonly recognized. Some years ago Professor Plumb found in thirteen cows deficient in the fore part of their udders. that the hind teats gave fifty-seven per cent. more milk than the front ones.

Old Cows.-As to how long a cow should be retained in the herd each must decide for himself; but I am satisfied that many people sacrifice their cows by selling too soon, as they are afraid the cow will become too old for the butch-I have kept many cows until they were worthless for beef, and thought that it paid rather than to lose a year or two of good milk. The mature cow has outgrown the likelihood of milk fever and garget, and has shown she possesses good lungs and a good digestion, and that her disposition is good. We have had cows eighteen years old that made 350 pounds of butter in a year. By the records of 486 cows kept. for seven years, the age of greatest profit in a cow's life is from six and a half to fourteen years old. The Holland Government tested a large number of cows to find at what period of cow's life the milk contained the greatest amount of butter-fat. The period was fixed at from the seventh to the eighth year, and that in a healthy,

well-fed cow the milk capacity increased up to the twelfth year, the flow remained stationary until the fifteenth year, when it usually decreased until the cow became farrow.

Sires. - The selection of a purebred sire to head a grade herd is wise. This sire should be a good individual, strong in his race type, with a backbone as rugged as the ridge of a continent, without brisket or dewlap; a distinctly masculine head, with a good mellow skin, He should show rudimentary teats and dairy form in his rear conformation. It is important, though often overlooked, that the dam of this sire should have a perfectly-formed udder -for form of the udder is strongly transmittible, and each breed has

a type of its own. her appetite constant if she is to continue in The sire should have a lively sense of his own importance, and not be willing to be imposed on by rough handling. He should fight if cornered, for the gentle bull rarely imparts grit to the offspring, and endurance seems to be founded in temper. Listless, flabby people are amiable; so is a listless, inert bull. The very word bully should indicate his character; he should be ready to bluster and fuss at any infringements of the rights of his harem. It is better for the head of a grade herd to be a strong, typical in-



Famous Pride (Imp.) (83459).

Winner of second prize in senier yearling Shorthorn class, Toronto, 1903. Calved December 20th, 1901. Property of Goodfellow Bros., Macville, Ont.

profitable milking for the entire year.

Draw an imaginary line directly across the cow's body in front of her udder. First of all, notice if ample breeding power is indicated by the width of her pelvis. The hips should be high, the thighs wide and encurving well; a strong, rugged backbone, with a distinct rise at the rear, so as to make the animal taller at the rump than at the shoulder. This rise should be gradual, and in improved breeds is rarely a dividual than one whose dam is a phenomenal, record-breaking cow. There are many fine bulls sacrificed to the idea that nature will permit sudden great elevations of quality. Now, quality must be backed by the physical health of the animal; so, if we push quality bafore conformation, or correct form has been built up strongly, we are apt to lose health. Milk production is a heavy strain, and the animal must not only be physically educated herself to stand it, but must have inherited the acquired constitution from her dams.

Each sire used in breeding the herd should be more refined in type than his predecessor. We believe in each generation having fresh blood introduced, and do not believe in incestuous inbreeding.

# Dosing for Milk Fever.

American special-purpose dairy papers, and some general-purpose journals, continue to publish antiquated formulas for the cure of milk fever in cows, under which thousands of the best annually go down to death, while enlightened Canadian veterinarians and dairymen are saving the lives of over 95 per cent. of cases by the simple process of injecting pure oxygen into the udder through the teats, and without any dosing with salts or other medicines, one firm of veterinarians having saved 47 cases out of 48 by this means, the only troublesome cases having been those which had been dosed before the up-to-date doctor was called in. Another veterinarian reports a magical recovery in every case except those previously dosed, a few of which have succumbed to pneumonia, the result of medicine given having entered the trachea, owing to the inability of the cows to swallow. Even in these cases, the administering of the oxygen brought the cows out of their state of coma, and would doubtless, have saved their lives but for the dosing.

When dairymen and cow-keepers generally learn to adopt nature's course of letting the calf suck for the first three or four days after it is born, or being careful to milk the cow only partially for that period, there will be a mighty falling off in the number of cases of milk fever, and if the few cases that then occur are treated with the oxygen remedy the losses will be practically nil, but it takes some people a long time to learn, and the oxygen cure is so simple that it doesn't appeal with force to those who are fond of physic. It is well, however, that so many have so far advanced as to rule out of the list of cattle complaints what used to be termed hollow-horn, the oxthodox treatment for which was boring a gimblet hole in the horn, splitting the tail, and filling both orifices with salt and pepper. The practice of dehorning has knocked one branch of this business endwise. Let us hope the tails may not have to go as a sacrifice to ignorance or superstition. But whatever you do, dear reader, don't dose the cow for milk fever, for the good ones that have been killed by that process would make a hecatomb higher than the Himalayas.

# Watch Your Skim Milk.

At this time of the year, when the milk comes in cold, there is need of care in heating the milk for separating. It is true some separators will skim closer than others with cold milk, yet they will all do better work when it is warmer. The extra loss of 0.05% of fat in the skim milk seems very small in itself, and yet it means five pounds of fat on 10,000 pounds; but in some creameries it may be found twice that, simply because the milk is not properly heated.

It behooves the buttermaker to watch this part of his work as closely as he does the cream ripening, but it behooves the owners—be they individual or co-operative—to enable him to do this without slighting other work. In order to do this a proper heater-indeed, a pasteurizing heater. of sufficient size—should first of all be provided so that the buttermaker need not stand with his eye on the thermometer and his hand on the steam valve all the time to get a uniform temperature. But even a good heater is not all that an up-to-date creamery should have; there should also be one of the automatic heat regulators, which now seem to be accepted across the water as being satisfactory—that is, they will hold the milk within two to four degrees of the desired temperature. We thus notice that the Casse regulator is fully endorsed by Swedish and Danish authority. Why haven't our experiment stations investigated the matter? Meanwhile, pending obtai me perfection, we hope the buttermakers will not figure to watch the temperature of the milk frequently and test their skim milk often.— [American Creamery and Produce Review.

## Diluting Cream.

In discussing the dilution of heavy cream, a writer in the New York Produce Review and American Creamery, says:

milk or water for thinning a heavy cream. The water supply at most creameries is an unknown quantity. A complete chemical analysis might determine whether it was sufficiently pure, but the possible sources of contamination are usually so numerous that it would be rather risky to use it when either whole or skim milk could be obtained, as, though perhaps pure to-day, it might not be

a few weeks or months later. "I prefer skim to whole milk or water, for these reasons—in addition to my reasons for not using water as given above—the process of separation has removed a large amount of objectionable matter that is present in whole milk, and it is. in my opinion, much easier to detect faults in skim milk. Again, although milk is largely composed of water, and although, perhaps, a chemical analysis will show no difference between such water and that drawn from a well, still it seems to me that there is a difference not susceptible of analysis, but which, nevertheless, is potent in its influence, and that influence is for the good of the ultimate product—whether it be butter, cheese, or cream.

# APIARY.

## Ontario Beekeepers' Association.

The twenty-fourth annual meeting of the Ontario Beekeepers' Association was held in Trenton, Ont., Dec. 1st, 2nd, 3rd, 1903. The president, Mr. W. A. Chrysler, occupied the chair. Besides the usual papers, question drawers and discussions on management, addresses of interest were given by C. C. James, Deputy-Minister of Agriculture; Prof. F. T. Shutt, Chemist, and John Fixter, Apiarist, Experimental Farm, Ottawa.

In his opening address, the President unkindly reminded the members that they were a year older than at last convention. He hoped that the discussions would tend largely to the matter of marketing honey. He also urged careful attention to the foul brood disease, that, if possible, it might be stamped out. According to the Ontario Government statistics, we have in Ontario this year 207,936 colonies of bees, an increase over 1902 of about 5,400.

In a paper on Ontario apiaries, Mr. B. O. Lott advised beekeepers to study their locality as to the proper time and place to move. He gave instructions for preparing hives for moving. On top and underneath the hive are fastened frames covered with wire-cloth screen; these replace the cover and bottom board. The combs are secured from shifting sidewise, and care is taken, when hives are loaded, to have them lengthwise in car, or crosswise of wagon. The discussion brought out different ways of fastening frames. If the top bars are even with the top of the hive and the bee-space underneath the frames, no special fastening is needed, provided they are self-spacing. The pressure of super or cover will hold them firm. A permanent portico, to which the bees can be confined by a screen, was recommended by Mr. R. F. Holtermann.

# QUESTION DRAWERS.

The first was opened by Mr. Morley Pettit:
1. In hiving swarms on starters, pollen is kept out of sections by using a comb with the starters to catch the pollen; also use a queen excluder.

2. To separate propolis from beeswax, allow the mass when melted to cool very slowly, and it will settle out of the wax.

3. As to size of hive, Mr. Pettit advised the 10 or 12 frame Langstroth, with 24 L. frames super capacity. Queens that cannot fill a hive of this size should be replaced by better ones. Messrs. J. B. Hall, R. F. Holtermann, C. W. Post and others endorsed this view. A large hive can easily be contracted with division boards, a small one cannot be enlarged except by doubling up, when the tendency is for the lower brood chamber to be deserted. Others opposed the use of so large a hive, and the matter was left to every man to settle for himself.

4. Bees will carry eggs from one comb to another, but probably not into the super. Drone brood there is the result of laying workers.

5. It is more profitable to have extracting combs built on full sheets foundation. When established in combs the extra secretion of wax can be saved by uncapping deeply, and allowing bees to build out the cells again.

6. Mr. H. G. Sibbald—Too much honey has been put into barrels this year.

Mr. C. W. Post, Trenton, opened the second question drawer. When asked:

1. About bee escapes, he advised their use for removing comb honey, but not extracting supers. The honey gets too cold for the extractor.

2. To prevent swarming, give plenty of supers and wire-screen bottom boards. Messra. Dickenson, Pettit, Hall, Holtermann, and others, said this did not prevent swarming for them. With an intermittent honey flow it might be all right, but where one source yields till the next begins it is no use.

3. Hive swarms on starters for comb honey, but for extracted honey put full sheets of foundation or drawn combs in brood-chamber.

4. In running for extracted honey use the regular Langstroth depth of frame, 9 1-8 in.

Mr. Morley Pettit read a paper on "Forced or Shaken Swarming." The swarming problem, he said, is perhaps the greatest one in connection with expansive beekeeping. One yard can be watched for natural swarms from morning till night, but that is poor economy. We must study short cuts. He retards swarming as long as possible, then practices shaken swarming, a

method which has been described in these columns

Experiments conducted at the Experimental Farm, Ottawa, were reported by Mr. John Fixter. He spoke highly of sanfoin clover as a honey plant, and also for hay and pasture. He also described a method of wiring frames with

vertical wires.

Prof. F. T. Shutt, Chemist, Experimental as to probable prices, and had also drafted a set Farm, Ottawa, described a continuation of the experiments he has been conducting, re proper storage of honey. His results confirm the usual teaching to keep honey in a dry place. Experiments in making honey vinegar will be more fully reported next year.

# MARKETING HONEY AND THE FOUL BROOD ACT.

Mr. H. G. Sibbald, Chairman of the Honey Exchange Committee appointed last year, gave his report. Owing to lack of confidence of beekeepers the Exchange had not handled honey, but had collected crop reports and advised members of grading rules for honey. Mr. Morley Pettit stated that the committee had done good work, but in order to handle honey a stock company was necessary. The possibilities of the British market were discussed at some length. A committee was appointed to collect crop reports, also to approach the Dept. of Agriculture at Uttawa, with a view to establishing a market in England, with power to arrange for a system of grading by special Act of Parliament. At the suggestion Prof. C. C. James, a transportation committee of Messrs. B. O. Lott and Wm. Couse was appointed to meet the R. R. Commission at Ottawa, with reference to better rates on bees and

The report of Foul Brood Inspector, Wm. McEvoy, elicited much discussion and criticism. A committee appointed to revise the Act recommended that organized districts be given power to appoint sub-inspectors. This recommendation was adopted by the convention.

The election of officers resulted as follows: President, J. W. Sparling, Bowmanville; 1st Vice-Pres., H. G. Sibbald, Claude; 2nd Vice-Pres., R. H. Smith, St. Thomas; Secretary, Wm. Couse, Streetsville.

Directors—District No. 1, W. J. Brown, Chard; 2, J. K. Darling, Almonte; 3, M. B. Holmes, Athens; 4, C. W. Post, Trenton; 5, J. W. Sparling, Bowmanville; 6, H. G. Sibbald, Claude; 7, Geo. Wood, Wesley; 8, Jas. Armstrong, Cheapside; 9, R. H. Smith, St. Thomas; 10, G. A. Deadman, Brussels; 11, J. F. Miller, London; 12, Samuel Wood, Nottawa; O.A.C., Prof. F. C. Harrison, Guelph.

Inspector of Apiaries, Wm. McEvoy, Woodburn; Asst. Inspector of Apiaries, F. A. Gemmel, London. Auditors, Messrs. Nolan and Byer. To Revise Report, Messrs. Sibbald and Pettit. Next place of meeting, Toronto.

# Special Clubbing Rate.

In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. Regular subscription price, \$1.50 per year (52 numbers). Show prospective subscribers a copy of the weekly. Every farmer should have it. Address, "Farmer's Advocate," London, Ont.

Clean the cream separator every time it is used. No matter what type of separator be in use it requires cleaning with hot and cold water every time it is used. Some agents claim for the machine they handle that their particular separator requires little or no cleaning. Some separators are more easily cleaned than others, but every one of them requires to be cleaned every time it is operated.

# POULTRY.

## Scratchings.

Six square feet to a bird is good measure in the house.

It is unwise to force the hen to roost under a leaky roof or in a draft, and—it is expensive.

Of the grain feeds, oats is the best balanced grain for the production of eggs, but for heavy egg production meat food must accompany them.

Old newspapers have their uses. Tack them around the sleeping quarters of your birds. It prevents drafts and helps them to keep comfortable and warm.

Don't overcrowd. This results in many diseases, impaired vitality and stunted birds; an unsightly, unprofitable flock, a disgusted breeder, and another sweet singer added to the voluminous chorus, "There is no money in hens."

There is always a good market and ready sale for dressed ducks, or live ducks too, for that matter. They are as easily raised as chickens, and are worth more than chickens on the market, A pond is a great help, but not absolutely necessary; still, they must have plenty of water to drink.

It is a fact that instead of the egg market being over-supplied, the supply seems to grow less from year to year. Nearly all the eggs consumed in the city at present are either cold storage or pickled eggs. That being the case, farmers will make no mistake in laying their plans for the future, to provide a winter harvest of eggs as well as a fall harvest of wheat. Eggs at 40 cents per dozen, that can be produced at 5 cents per dozen, leave something for labor and a lot more for profit.

# **Encourage Exercise.**

Only one class of poultry should be prevented from taking exercise, and that is the fattening From now until spring, when the birds will again have liberty, some provision should be made to allow them to work off their surplus energy. It does not take a hen many minutes to perform her daily work of laying an egg, and during the rest of her waking hours she must be kept busy. Brain work is out of her line, therefore she must have bodily exercise. The room for such exercise cannot be too light, although it may be made too warm. Where possible, light should be admitted on three sides of the room, and if the temperature is kept above freezing, the birds will not suffer discomfort, provided they have work to do. On most farms the best materials for scratching beds are cut straw, chaff, and cut clover hay. A few inches of these materials on the floor is the delight of the hen's heart. In it she will scratch and cackle all day, and so find conditions as nearly natural as it is possible to get them in our winter months. Large quantities of expensive grains need not be thrown into the litter, for birds will scratch a long time in search of a kernel. The object of feeding grain in the litter is principally to induce work rather than to satisfy hunger, consequently light feeding should be the order. Some poultrymen prefer cut clover to chass or cut straw, for the reason that much of the clover is eaten by the birds, who, by the way, are in need of just such food. Whether it be for feed or exercise, the litter should not be neglected if the health of the flock is to be maintained, and unless it is the egg supply cannot be very large, nor the best results obtained for settings next spring. Such a litter might be renewed about every three weeks, so that it may always be kept clean and dry, for dampness is death to any flock.

# Increasing the Egg Production in Poultry

Let there be no mistake in our meaning. The increased production is at the expense of the duration of the product. To illustrate our meaning: In every chick that is hatched the ovarium contains the genesis of every egg the bird could produce during its life, varying from 70 in some strains to 200 and more in others. The bird may take four, five or more years to produce all these eggs in a natural way. But the hen's way is not the keeper's way. We want the eggs in a hurry; so high condiments are used, and the production temporarily increased, but the supply is the sooner exhausted. The most productive period of any bird is during the first year of its life. It should then be fed the stimulating foods, and upon showing signs of exhaustion, be placed in the fattening pen and killed. Most of the "poultry species' and "feeds" will accomplish this, or the

following may be used: Two parts Cayenne pepper, four parts mixed spice, and six parts ground ginger. Mix well, and add a spoonful of coffee to each one-half pound of the mixture. A tablespoonful to twenty fowls, mixed in their mash three times a week, will be abundance.

# Poultry Raising.

To the Editor "Farmer's Advocate"

Dear Sir,—I wish to start in the poultry-raising business. I am a young married man, own a house on about four acres of ground, and have \$400.00 cash. Neither my wife nor myself know much about poultry-raising, other than keeping a few birds on a farm. How would you recommend me to start, and which is the best breed of birds to keep? Thanking you in anticipation, I am, Yours truly, SUBSCRIBER.

Ans.—If you have a steady job, stick to it, and hold on to those dollars too for a little time. To make a living from poultry, one must "study how," "learn how," and "know how." "Poultry Craft," post free, \$2.00, can be had from this office, and is all its name implies. We will give you a few pointers, however.

The location should be on well-drained ground, and be fairly protected by trees. The houses should be tightly built, facing the south, with a shade of east in—i.e., facing the S. E. by S.—divided into pens, each pen being provided with a good run.. Place windows in the south side of the house, and not too much glass.

The birds are a matter of personal choice, but should be limited if wanted for eggs only, if for eggs and meat, or if for large meat only. For a paying poultry ranch, I would suggest the American breeds or the Orpingtons.

Feeding is something gained only by experience and study. They will live on a grain and grit diet, with water, but give you no living, nor a part of one.

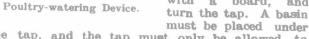
A parting word of advice: Stick to your job, and start in a small way—a dozen or twenty hens. Set eggs either with hens or incubators, and raise a nice flock of pure-bred birds. The first year build a house to accommodate about 100 pullets, double it the second year, and the third year you should have the "know how" to manage a thousand. More depends upon the "man" and his persistency than upon the hen.

# Watering Poultry in Winter.

A majority of the poultry-houses in this country are pretty cold places, and it is quite a task to suppy the birds with water, so that they can have it before them all the time.

The device shown here will do this work most satisfactorily. Get a

satisfactorily. Get a can holding five gallons, with a tap at or near the bottom. Place this can in a box, and fill the space at the bottom and around the sides with sawdust, cut hay, fine chaff, or any other protection from cold; fill with hot water; cover in the top with a few thickne old flannel, topped with a board, and turn the tap. A basin



the tap, and the tap must only be allowed to drip. By watching it for a little the first day or so, one can gauge the speed the drops of water should be allowed to flow. The can must be emptied every night and filled in the morning, the quantity depending upon the size of the flock to be supplied.

[Note.—From poultrymen, the "Farmer's Advocate" would be pleased to receive concise descriptions, with sketches—pen and ink or pencil—from which cuts can be made to illustrate handy contrivances, preferably those actually tested and found serviceable by the writer. Plans of good poultry-houses, suitable for farmers and poultrymen, are also acceptable.—Editor.]

# Sloppy Food.

A correspondent quoting from Bulletin No. 127, of the Ontario Agricultural College, re fattening chickens, criticises the crates, and suggests improvements, and further on advises that feed be given them in a sloppy condition, i.e., to the consistency of ordinary gruel. Our friend did not notice this applies to food used in a cramming machine, and is specially made sloppy that it may pass through the pipe of the cramming machine into the bird's crop.

In feeding soft feed from the trough, it should be of such a consistency that the bird can peck a mouth (or beak) full and pass it down. Dampened, not wet, nor sloppy, will be found the best fattening ration, producing the firmest flesh on the most equally attractive carcass.

Winnipeg, Man. POULTRYMAN.

## Toronto Poultry Show.

The tenth annual exhibition of the Toronto Poultry and Pet Stock Association was held in St. Andrew's Hall, Toronto, on December 29th, 30th, 31st, 1903, and January 1st, 1904. The exhibits, which numbered about 600, were better than those of the year previous. There were several exhibitors from outside places, including London, Hamilton, Welland, Perth, Kleinburg, Drumbo, etc. The exhibitor showing the largest number of birds of all classes was G. J. Lawrie, Kleinburg. The best represented classes were Light Brahmas, Langshans, Black Minorcas, White Wyandottes, White Rocks and Buff Orpingtons. An improvement noticed, as compared with last year, was a number of new coops, purchased by private subscription, which will be added to before another show comes off. There was a very fair show of pigeons.

In Light Brahmas, Geo. A. Tossy, Hamilton, and J. J. Pickard, Drumbo, were winners. In Dark Brahmas, G. J. Lawrie had it all to himself. He also won with Partridge Cochins. The winners in Langshans were Jno. H. Wright, Oakville; Slessor & Briggs. London, and Lawrie. White Leghorns were shown by W. J. Fullerton, Jno. Chambers and M. Parmenter, all of Toronto, and Brown by H. F. Becker, Waterloo; G. J. Lawrie; W. J. Playor, Galt, and Gofton & Dapiel; Drumbo. In Spanish, Lawrie won everything, as did H. Danne, Toronto, in White Minorcas. In Black Minorcas, R. Durston, Toronto; G. J. Lawrie, and L. V. Zavitz, Toronto Junction, were victorious. C. J. Daniels, W. H. Bessey, Coleman; D. S. Cullen, Drumbo, and W. R. Kerr, East Toronto, furnished the winners in Buff Orpingtons, a breed that is becoming quite popular here, as in England. C. J. Daniels also showed the black variety of this breed. Jno. Chambers, G. J. Lawrie, and Robt. Jones were to the fore in Houdans. Games were very scantily represented. no one opposing Lawrie's entries in Black Reds and Indian Games, and this was also the case in Dorkings. C. J. Daniels, Gofton & Daniel, G. J. Lawrie and F Travers, Toronto, in Golden Wyandottes; Lawrie, and Gofton & Daniel, in Silver; and Jno. S. Martin, Port Dover; Moebus & Son, Toronto, and Jno. S. Martin and W. E. Mackay, also of Toronto, in Whites, were the winners. Buffs were shown by T. F. McCabe, Moebus & Son, and Spry & Mick. The prizewinning Barred Rocks were owned by Wm. Oakley, Jno. Chambers, Robt. Thompson, Toronto, and C. A. Beal, Perth; Buffs by C. J. Daniels, C. Jefferies and C. Jamieson; and Whites by W. H. Bessey, J. Bedford, C. Jamieson, and G. J. Lawrie. There were no turkeys or geese shown, and Lawrie had the only three pens of ducks present-one each of Aylesbury, Rouen and Pekin-all

The special prizes were awarded as follows: Walker Cup, for best pair of birds shown, R. Durston, Toronto; John J. Main Challenge cup, for best Buff Leghorn cockerel, G. Berner, Toronto; Standard Silver Plate Company Cup, for best collection of Barred Rocks, and Robinson Cup, for best collection of Rocks, Wm. Oakley, Toronto; Hon, Geo. A. Cox Cup, for largest and best display of single-comb White Leghorns, W. J. Fullerton, Toronto; City of Toronto Cup, for hest display of one-color Game Bantams, Oakwood Farm, Toronto; Reliable Poultry Journal Cup, for best White Wyandotte cock, hen, cockerel and pullet, John S. Martin, Port Dover : Sheppard Cup, for best Black Minorca, L. V. Zavitz, Toronto Junction; Earl of Minto Cup, for largest and best Light Brahmas, Geo. A. Tossy, Hamilton.

# A Tame Flock.

A good poultryman keeps his hens tame enough to be easily controlled; but sometimes one has to take charge of a strange flock that has had very little care. I have, at different times, taken into my charge hens which the first time I opened the door, tried to go through the windows and knot-holes, dozens trying to get through a little hole in the corner that was hardly large enough for one. Other times a hen will steal away her nest and raise a clutch of chickens separate from the rest.

In taming such wild flocks, it is always best to advance to them through the regular doors or gates. If you can, frequently catch one of the hens, stroke her and feed her from your hand, and the whole of them will soon be quite tame. When you have a wild flock running at large, go out in the field in plain sight of them, throw down some feed, and call them-any sound will do, if you always use it-then go around, drive the birds where the feed is, and give a few calls as soon as they find it. Always feed in the same place, at the same time of day. You will not have drive them more than a half dozen times till they will come to your call. I have never been forced to give up a flock yet, and have had the wildest to try on. WALTER MOCRE.

second

supers.

ED 1866

f.
of supers
Dickenors, said
. With
ll right,
t begins

honey, foundause the in. Forced

Forced problem, connected can ning till st study ong as ning, a columns

rimental
hn Fixer as a
re. He
es with

rimental
ed a set
of the
proper
ne usual
Experiore fully

Honey , gave of beeney, but

BRCOD

of beeney, but members Pettit work, ompany British A com-ts, also attawa, ingland, grading gestion

at Otees and c, Wm. cism. A recompower ndation

com-

use was

ollows:
st Viceres., R.
Couse,
Chard;
Holmes,
Sparide; 7,

Cheap-

G. A.

ondon;
F. C.
odburn;
l, Lonc. To

ription rate: ; one Regupy of t. Ad-

it is be in water im for ticular Some others, every

## Utility in the Show-room.

Unfortunately, our show specimens run too much to shape and feather, and while we acknowledge that the shape must be preserved to characterize the breed, and feathers conform to their requirements to maintain the claim of the bird to a variety, there is a question if too much is not sacrificed to these qualities.

From a farmer's standpoint, we would like to see every exhibitor of a breeding pen compelled to show a sample of the finished product of his yards in the "dressed fowl" class, and a dozen of the eggs laid by the same birds, and thus enable the public to see something of what the product of the yards are.

Poultry shows should be instructive, and more along utility than fancy lines. It is something like telling fairy tales to say this pair of birds are "worth \$20.00, because their shape and feathers are so nearly perfection." The average farmer is not paying good money for fancy, but demonstrate this pair is worth \$20.00 because they will grow so much flesh on so much feed, or lay so many eggs in such a time, and you catch him in a part likely to interest him.

# The Value of Green Cut Bone.

It is strange the number of times we require to be told a truth before we believe it.

We have all heard of the man going around trying to sell a good \$5.00 bill for a silver dollar—none would buy. The offer was all right, and the V. would have been given in exchange for the I., but, though they were assured it was good, there was no sale. It is the same with "green cut bone." The first twenty times we are sceptical; the twenty-first we think there is something in it; the fiftieth time we have a good mind to try "ten" cents' worth, and by the time we have thought of it for the five hundredth time we decide "there must be something in it; I'll get a bone cutter."

Now, to try and demonstrate that there is something in it, here are a couple of comparative tables to think over.

It is an axiom of the poultry world that a hen is an egg machine, i.e., give her egg-making food and she will lay eggs.

Most fowls are fed grain foods rich in protein and poor in fats; few get "cut bone" rich in fat. Below is the analyses of eggs and fresh beef:

	Fresh	1
	beef.	Eggs.
Water	64%	74.5%
Protein	14	12.5
Fat	21	12
Salts	1	1

Now, we must not run away with the impression that by fresh beef is meant only the sirloin cuts. "Fresh beef" includes the waste of the animal, and this analysis includes the bone as much as the steak.

Such being the case, why not give the hen a chance to show what she can do. Give her a balanced ration, in which the proportion is one part protein to four or five parts carbohydrates, but without the use of green bone, or a meat food of some description, it is not possible to secure this ratio.

# Prices of Stock.

The process of education goes along but slowly. As a matter of fact, there is no royal road to an education. We all have to learn by experience, if we decline to learn as we read. And this is as true in poultrydom as anywhere else.

To the south of us, where poultry is cultivated, and the products of which are greater than the beef and hog products combined, the value of a good bird is known.

The writer has recently seen some prices of pure-bred fowl of fairly good quality quoted. For instance, a Plymouth Rock pullet, good weight, pure white, and good comb, \$20.00; another pullet, a little better, and fit for the exhibition pen, \$50.00.

Another breeder, from Michigan, quoting price on a Buff Orpington cockerel, weight 9 lbs., good color, except just a trace of white in wing primaries, \$20.00. Pullet, good in head and shape, good in color, except a little black in tail, \$10.00. Birds for exhibition a matter of correspondence.

Offer these men three to five dollars for a "cull" bird, and they will write that this sort are usually sold plucked and dressed, ready for the oven.

We recall a young and ambitious amateur confirmment purchasing some birds of a heavy eggins for strain of Plymouth Rocks, at a pretty good to a life birds started laying, and kept on laying the remaining the waited and watched for some of them there for the tension but they didn't; and about 200 eggs and the started latted. July arrived, and "Amateur they are the breeder, gently kicking. The breeder reports in attisually, "that the birds

were bred to lay, and broodiness was nearly bred out of them; further, that birds of value were of more profit laying eggs worth \$2.00 to \$3.00 per dozen than setting on them, as any old hen worth 40 to 60 cents could do this work, and an incubator and brooder would do it better." Our friend then acknowledged that the grin was on him.

To get first-class stock for a specific purpose costs time, trouble and money, and when obtained, inexperience often spoils the work of the original breeder.

## The Incubator.

Incubators should soon begin to occupy attention, if chickens for the early market or in any considerable number are to be raised. The incubator and its complement, the brooder, are as necessary to the poultry raiser as is the cream separator to the buttermaker; without them operations must necessarily be very limited and risky; with them the operations may be indefinitely extended and brought very much more under the control of the operator. But if anyone is contemplating purchasing an incubator, let it be a good one.

# GARDEN AND ORCHARD.

## The Northwest Fruit Trade.

The fruit-growers of Ontario look forward to the development of a large trade in the Northwest for their products. With the rapid settlement of that vast country, and its unsuitable climatic conditions for the growing of orchard fruits, it is but reasonable to expect that a large part of our fruit should find a profitable market But the establishment of a large and profitable trade with that section of our country will not be all plain sailing. There are many difficulties to overcome. There is constant complaint of fruit from Ontario arriving in bad condition, while that of our competitors from the Western States and from British Columbia almost invariably arrives in first-class condition. Just here it would be interesting to know what, if any, advantages they possess in the way of transportation. It is freely admitted that they are ahead of us in the matter of packing and grading. An important factor in favor of fruit grown in the dry climate of the Southern Pacific Coast is that it will carry farther in good condition than that grown in Ontario-more especially the perishable fruits, such as plums, pears, peaches, and grapes. But Ontario has a very important factor in its favor that should more than offset this, viz., that the quality and flavor of Ontario fruit is conceded to be superior to that grown anywhere west of the Rocky Mountains. Therefore, the obstacles to be overcome are principally those of packing and transportation.

In the matter of packing, it seems certain that the barrel and the basket will have to be abandoned in favor of the box. For apples and pears the trade of the West prefers the box; it is handier than the barrel, and is particularly suited to the retail trade, as it is the size of package suited for family use, more especially in the case of early and fall apples. In the case of the latgives thorough ventilation, and the fruit lands in better condition. The bushel box for apples and the half-bushel box for pears, as recommended by the committee of the Fruit-growers' Association at their last annual meeting at Leamington, it may be safely asserted will be the standard packages for the Western trade in the future. For the more tender fruits, the splint basket will have to give way to the shallow box. The basket is not strong enough to stand the pressure when piled up several tiers high in the car. The bottom tiers are pretty sure to come to grief. The stronger, shallow box will allow of better ventilation; will not crush with the weight, and will carry the fruit in better condi-

With respect to the grading and marking, the thorough enforcement of the Fruit Marks Act will, no doubt, keep matters right, so that purchasers will have every confidence in the quality of the article they buy. When we come to the question of transportation, we encounter the greatest problem in the whole situation. There is no satisfactory answer to the question, "Why should fruit be made subject to such a relatively higher rate than other products?" One of the first answers to that question would, no doubt, be that it is more perishable and requires quicker transit. But, except in the case of that shipped by express, we have little evidence that it gets it The complaints as to fruit shipped by freight and spoiled through delay during the warm months, and large quantities frozen in the late fall from the same cause, "Delay in transit," all point the other way. The transportation companies make sure of the freight charges, by requiring them to be prepaid or guaranteed when there is danger of frost, and marking the freight bills at owner's risk. In addition to a reduction of rates

there will have to be something more definite as to the responsibility of carrying companies. If a company can leave cars of perishable freight side-tracked at junction points, and otherwise delayed until it is spoiled, it will not do to allow them to slip out of their responsibility by simply writing "Owner's risk" across the bill of lading, and still continue to charge unreasonably high rates for this class of freight, on the ground that it is perishable and requires quick transport.

It has often been said, and is no doubt true, that in order to get anything from a railway company, in the way of reduction of rates or improvement of service, you must be able to convince them that it will pay them to do it. Up to the present the Joint Traffic Association, representing the railways, has been the medium of communication between the railways and the public for the adjustment of grievances. We are shortly to have a Railway Commission, clothed with powers to adjust such grievances as are now shown to exist; and upon the strength and clearness with which the case is presented to The Manufacturers' them much will depend. Association were wise in their selection of a railway expert to represent them before the commission. It is absolutely necessary to know something of the ins and outs, the details of railway business. When the railway companies have anything to accomplish, they employ the best men they can get, and are always able to present a strong case. When matters of this sort come before the commission the railway people will be sure to make out the strongest case possible. The Fruit-growers' Association have appointed a strong committee on transportation-men experienced in shipping, and good business men-and they will be able to present a strong case, no doubt, but something more is needed; someone with an expert knowledge of railway business should be on that committee. A great deal is expected from them. The Fruit-growers look for the redress of their grievances in the success of the committee before the commission, and they will need to go well prepared, if they are to accomplish anything. They have wily opponents to deal with, but it must be remembered that we owe the railways nothing. They have received large grants in money and land; they have been bonused and subsidized to an enormous extent; they have been granted franchises worth millions of dollars, and we are asking nothing unreasonable. We ask that they shall not be allowed to hamper interprovincial trade by unjust exactions; that our goods shall be carried at a fair rate, that will leave something for the producer, instead of paying half the entire proceeds to carry the product to market; that our products shall not be destroyed in transit through negligence while we have no redress. We believe in the old adage, "Live and let live," and we object to be squeezed in order that these subsidized corporations may pay dividends on watered stock representing millions of dollars. We are nearing the dawn of a brighter day.

# British Market for Fruit Pulp.

The British people consume a great quantity of jam. Everyone who can afford it in that country eats jam. A great deal of the material for the manufacture of jam is imported in the form of fruit pulp. The fruit is pulped and preservatives are used to keep it from fermentation. In some parts of Canada this year large quantities of plums were never gathered, but allowed to rot and go to waste simply because they would not bring enough on the local markets to pay express and commission charges and cost of packages. At the same time, there were lots of people in our own country who would be glad to pay a good price for them, if they could get them, and in the Old Country there was a great scarcity of material for making jam. It is simply barbarous that this waste should occur under these circumstances; surely, the enterprise of our people will not allow this to continue.

A resolution was passed at the Fruit-growers' meeting at Leamington, in favor of removing the duties on sugar. Cheap sugar will develop the jam trade in our own country. England is able to buy fruit pulp, manufacture it into jam, and then sell the jam to the countries furnishing the fruit pulp from which the jam is made. They are able to do this because of cheap transportation rates and cheap sugar. There is room for the development of a large trade in our great Western domain in jam, canned and evaporated fruits, and the British market, in the meantime, should be thoroughly exploited for this class of our products.

# Special Clubbing Rate.

In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. Regular subscription price, \$1.50 per year (52 numbers). Show prospective subscribers a copy of the weekly. Every farmer should have it. Address, "Farmer's Advocate," London, Ont.

Popular There.

The Ben Davis apple, according to the statistics gathered by the secretary of the American Apple-growers' Association, constitutes one-half of the reported crop of the whole country. Its actual percentage was 45. Other apples followed with these percentages: Jonathan, 10; Gano, 9; Grymes Golden, 2; Winesap, 8; Missouri Pippin, 4; Ingram, 8; Roman Beauty, 1; York Imperial, 1; Yellow Twig, 1; Mammoth Black Twig, 11, and all other varieties, not named,

QUESTIONS AND ANSWERS.

ist.—Questions asked by bona-fide subscribers to the "Farm er's Advocate" are answered in this department free.

3nd.—Our purpose is to give help in real difficulties; there fore, 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

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

Veterinary.

(Answered by our Veterinary Editor.) ELEPHANTIASIS AND OTHER TROUBLES.

1. Heavy mare has large leg from hoof to hip, and the hock is a little stiff, being four times its normal size. Occasionally there is a discharge. Five years ago she got rope burn, which caused scratches which were neglected.

2. Mare has something wrong with her stifle. Just below the joint there is a hard, bony lump. When standing, she rests the foot, and turns it so as to show the whole sole. Her left eye discharges matter after being in the wind. Her teeth need dressing; would this effect the eye? The man from whom I bought her says she got struck on

3. Does it require great veterinary skill to file a horse's teeth? W. H. H. Huron Co., Ont.

Ans.-1. This is a chronic condition, called elephantiasis, and as there are occasional eruptions it may develop into a condition known as grease. It is not probable treatment will be effective in a case of five years' standing. Treatment consists in purging with 9 drs. aloes and 2 drs. ginger; follow up with 1 dr. iodide of potash, night and morning. If her appetite fail, lessen the dose, but a large mare will usually stand dram doses. This will need to be continued for months, and you will find it expensive. Local applications do little good, but repeated blistering might help to reduce the size of the hock.

2. Nothing can be done for the bony growth on stifle except firing and blistering. She rests her foot and turns it as described because this eases pain. Her left eye suffers from repeated attacks of inflammation, and it is probable she will go blind from cataract sooner or later. The attacks cannot be prevented, but should be treated hy placing mare in partially-darkened box stall, feeding lightly, giving a slight purgative, as 6 drs. aloes and 2 drs. ginger, bathing the eye well three times daily with warm water, putting a few drops of the following into it, viz.: Sulphate of 10 grs.; distilled water, 2 ozs. The con dition of the teeth does not affect the eye.

3. No, but at the same time it requires the proper speculum and rasps, and sufficient skill (which is acquired only by practice) to use the files properly, and know just what to do and when to stop. Few but veterinarians have either the necessary instruments or the acquired skill to operate properly.

I would advise you to call your veterinarian in and allow him to examine these animals and advise. I have my doubts about the success of treatment in either case, and a veterinarian who makes a personal examination will tell you whether it will pay to go to any expense or trouble with them.

SWITCHING COLT.

An unbroken Clydesdale mare shows signs of switching. How can I prevent her developing this vice? D. W.

Elgin Co., Ont.

Ans.—This is a vicious habit. It is congenital, and the vice is hard to cure. Docking and nicking, which can be done only by a veterinarian, will remove the power to switch, and is the better plan. An iron can be arranged on the crupper, to extend about six inches down the tail, and the tail buckled to the iron, or the tail may be tied down to the breeching. These, or other devices, will prove effective while applied, but as soon as the tail is allowed freedom the vice will very probably reappear.

MUSCULAR CRAMP.

After standing two hours, colt went lame for a few steps. Next morning he held foot close to body, and went lame for a few minutes Simcoe Co., Ont. SUBSCRIBER.

Ans.-Your colt suffered from cramp of the

flexor muscles. If not better by the time you see this, purge him with 8 drs. aloes and 2 drs. ginger; bathe the muscles with warm water and allow him to stand in a box stall for a few days.

## RAM WITH PARAPLEGIA.

Ram, two years old, took what seemed to be rheumatism about six weeks ago. He would pant, grunt, and appear to suffer; got stiff, can walk only with difficulty, and sometimes lies flat. Has got thin in flesh. Gave him aconite and opening medicine. He has stopped panting and grunting, but is still stiff and has poor appetite.

Ans.—Your ram has paraplegia (partial paralysis), as the result of digestive derangements. The aconite you gave him was either of poor quality or given in very small doses. Aconite is a drug that should be used only by professional men, as its actions are very well marked, and if the heart be inclined to be weak, an ordinary dose of aconite of good quality will cause death. Give the ram a purgative of six ounces Epsom salts. dissolved in half pint warm water; follow up with 30 grains nux vomica, three times daily. Keep him dry and comfortable, and feed well.

CHRONIC MAMMITIS AND INDURATION.

Cow calved in April. Could not get any milk into the teats. She was dull and ate little. I bathed udder and purged cow with salts, and after a while she milked all right, but half the udder has been swollen ever since. Now, when drying her, the milk is stringy in all quarters, the affected side the worst. J. H.

Ans.—She has chronic inflammation of one half of the udder, with a hardening and enlargement. It is doubtful if she will ever make a satisfactory milker, but will, in all probability, be troubled with recurrent mammitis. If there be heat in the udder now, purge her and apply hot poultices until inflammatory action ceases, then rub the enlarged quarters once daily well with compound iodine ointment, and give 1 dr. iodide potassium, night and morning, for a few weeks. her appetite fail, decrease the dose to 40 grs.

GROOMING BROOD MARE, ETC.

1. My neighbors tell me that grooming a pregnant mare causes the hair on the foctus to grow long and stand up straight. Is this so?

2. Five-months-old boar has been getting stiff for a month. I keep him on cement floor, with plank to sleep on, and feed on barley chop. Is he fit for R. H. C.

Northumberland Co., Ont.

1. The idea is absurd. Careful grooming is beneficial to horses and mares at all times. It would not be wise to groom a pregnant mare roughly with a sharp-toothed currycomb; not that it would have any action on the coat of the fœtus, but the irritation to the abdominal muscles caused by the sharp teeth might cause sufficient muscular contraction to cause

2. Purge with 4 ounces Epsom salt; allow regular exercise; cover the whole floor with plank. Give 20 grains nux vomica night and morning, and feed bran mixed with the barley meal, also give raw roots and

# MISCEI LANEOUS.

1. What will bring a fat cow to her appetite when she refuses to eat her chop allowance?

2. Has a parrot-mouthed colt other difficulties than

inability to do well on short pasture? 3. Should she be favored in the stable?

4. How much would the malformation reduce her value?

5. Are cattle liable to thoroughpin? 6. If so, would you treat as in horses?

7. Does a grayish deposit around the anus of colts indicate worms; if so, how would you treat? Oxford Co., Ont. W. M. D.

Ans.-1. Purge with 2 lbs. Epsom salts, and feed nothing but a little bran for 24 hours. Follow up with 1 dr. each sulphate of iron and gentian, three times daily, and feed little chop at first, gradually increasing the quantity as appetite returns.

2. Not unless there is also malformation of the molars, which is frequently the case.

3. In most cases, it is better to feed rolled oats, but if the molars are all right, she may be fed as other horses.

4. This depends upon the degree of the malformation, and whether the purchaser intends feeding in the stable all the time. In cases where the incisors only are at fault, probably 25 per cent. If the molars are also malformed, most people would not buy her at any

6. If treated at all, yes.

7. Not necessarily, but in some cases this symptom is noticed. Give, for an average yearling, 30 grs. sulphate of iron and 30 grs. sulphate of copper, night and morning, for a week, and then purge with 5 drs. aloes and 2 drs. ginger.

COLT WITH WEAK KNEES, ETC.

1. Is the foam on separated milk injurious to a colt or calf?

2. Draft colt has not straightened up on his fore legs. He is over on his knees M. W. S. Welland Co., Ont.

Ans.-1. No.

2. The probability of straightening depends upon cattle.

the extent of the weakness. Keep him in a box stall, and feed hay off the floor. Make a movable box for grain, and place on the floor, removing when he has eaten his meal. In fact, feed everything off the floor. Feed liberally on rolled oats and bran, and allow exercise outside during the day.

# Miscellaneous.

BARN PLANS

Would you please publish a suitable plan for a barn 40x60 feet, with an L 30x50 feet? The barn stands with the side of the L facing the Would like to have room to stable about twenty head of cattle, two box stalls, a root cellar, a place for implements, room to stable about five or six horses, a harness closet, and a carriage room. Would like to have the alleys for the cattle wide enough to drive through, if pos-

Elgin Co., Ont.

Ans.—In the plan published in our December 1st issue, there are two box stalls 14x20 feet, and a feed room 15x26 feet. These three rooms might be eliminated, and the barn made twenty feet shorter; then by narrowing the passage at back of cattle in the end row, the total length could be reduced to 60 feet. This arrangement would bring the two threshing floors together, and would necessitate a new arrangement for the silo and feed room. The latter could be conveniently situated in the part set off for one of the boxes in the horse stable, including the passage from the stable to the feed room as it stands in that The silo then could be placed just outside the feed room, beside the driveway, and the roothouse would be located under both driveways, as indicated in the plan. Such a basement would make room for all the stock, The L 30x50 feet could then be used wholly for implement and harness rooms. The main reason why the plan submitted in the Dec. 1st issue is valuable, is because of its simplicity, and because it utilizes all available space to best advantage. A passage through the L leading into the barnyard would make a suitable and convenient means of reaching the stables. On one side of this passage could be located the carriage room, and on the other the implement shed.

# TOBACCO GROWING.

Would like to have some information about the growing of tobacco for market; or could you put me in communication with some reliable farmer that has had experience in the growing of the SUBSCRIBER.

Hastings Co., Ont.

Ans.—Essex County is generally supposed to be the only locality in Canada where tobacco can be grown profitably in considerable quantities. True, the French-Canadians grow tobacco for their own use, but not for commercial purposes. Essex County is the most southerly point in the Dominion, being in the same latitude as California, Southern France, and Italy, and besides has the advantage of being contiguous to a large body of water. Growers in Essex very much doubt the possibility of growing tobacco in Hastings County. The methods of growing the plant are much the same as those for growing The seed is sown in early spring in hotbeds or cold frames, and the plants thinned and otherwise carefully tended to until all danger of frost is past, when they are set out in well-prepared scil, about three feet apart each way. From this time on, until the stems have developed fifteen leaves, the land is kept clean by good cultivation. When the necessary number of leaves have developed, the head of the stalk is kept pinched back, and no flowers are allowed to set. The crop is cut before frosts in the fall, and carefully cured until early winter, when the stalks are split down the middle and hung in a dry barn to further cure. Only one variety is grown in Canada, and it is used for the manufacture of chewing tobacco. Tobacco companies would willingly furnish seed and all necessary information about the crop. About fifty cents worth of seed is sufficient to seed four or five acres. Some successful growers in Essex County are E. M. Bee, Leamington; Geo. Evans, Leamington; O. Duke, Olinda.

# APPLES FOR COWS.

Please tell me, through the columns of the "Farmer's Advocate," if apples are of any value for milking cows? In what quantity should they be fed, and would it be better to pulp them? Wentworth Co., Ont. C. E. W.

Ans.-Apples, in moderate quantity, are of some value as feed for cows in milk, but the quantity should not exceed two gallons per day, in two feeds. There would be some advantage in pulping them if they were mixed with chaff or cut straw, as the more chewing and mixing with the saliva of the mouth, the more perfect will be the digestion; otherwise, the apples may as well be fed whole, as, generally, a cow will chew them pretty thoroughly before swallowing them, if tied in her stall and undisturbed by other

it. Up ociation, medium and the We are clothed as are gth and nted to acturers' of a railcommisw somerailway ave any-

ED 1866

finite as nies. If

e freight

wise de-

to allow

by sim-

bill of

asonably

e ground

ansport.

bt true,

railway

s or im-

to con-

est men esent a come bewill be possible. ointed a experinen-and case, no someone business deal is look for ccess of and they e to acnents to that we received ave been extent : millions nreasonlowed to

ractions:

air rate.

cer, in-

egligence

in the e object ubsidized ed stock nearing lp. quantity in that material in the and preentation. quantilowed to

y would

pay exof packlots of be glad ould get a great is simur under e of our growers ving the lop the is able m, and ing the They are

ortation

for the

Western

uits, and

ould be

ir prodcription b rate: 50; `one Regu-52 numcopy of it. Ad-

ıt.

## SOUR OR ACID SOIL?

Please answer the following through your columns: (1) What is "sour" land; (2) what is "acid" land; and (3) the difference between the two? I understand from what I read, that strawberries do well and thrive in land too acid for almost any other crop. (4) How will raspberries and blackberries act in such land; (5) what is the best and cheapest corrective for such land; (6) how is lime treated and applied to land, and at what rate; '(7) what action has it on the soil, and will an over-application injure plant life? J. W. F.

Yale and Cariboo, B.C.

Ans.-Acid and sour, as applied to land, are synonymous terms. To determine whether the soil is acid or not, take a strip of litmus paper and bring it in contact with the damp earth; if the blue color of the paper changes to red, the soil is too acid for plant growth. Soil should be just neutral; that is, neither acid nor yet alkali. The best remedy for acid soil is, after thorough drainage, lime. The amount of lime required to check the acidity will, naturally, depend upon the degree of sourness in the soil. Ordinarily, a coat spread on as thinly as possible would give immediate benefit. Take the burnt lime and pile it in small heaps, as manure is sometimes applied, and cover with the damp earth; in a few days it will become slacked, when it can be spread thinly over the surface and cultivated in. There is not much danger of an overdose. It might be tried in a small plot. Experiments conducted at Rhode Island go to show that blackberries, Snyder variety, thrive very well on acid soil; cranberries, also, are right at home on sour land. We have no knowledge of strawberries succeeding well on sour land. Much would depend upon the variety and the extent to which the plants were accustomed to the nature of the

## STALLIONER'S FEES.

A owns a Shire stallion, B owns a carriage stallien, C owns a mare of the agricultural class, about ten or twelve years old, that has raised four colts. On June 21st, the mare was served by A's horse. On July 8th, the mare was again served by A's horse. The mare was then examined and found closed. A said to C "Your mare is either in foal or it is impossible to impregnate her. On July 11th, C's mare was covered by B's horse. The mare foaled on May 31st, and the colt resembles A's horse. Is A entitled to a stud fee; F. D. G. if so, can B also collect a stud fee?

Ans.—The mare was evidently pregnant to the first service, and it appears to us that A is clearly entitled to his fee. Many instances have come within our knowledge of pregnant mares accepting service for months after being in foal. Unless there was some special agreement, it would appear that B is also entitled to his advertised fee for a single service of his

# REGISTERING STANDARD-BREDS - CONDITION POWDER

1. Can you give the standard for the registration of Standard-bred trotting and pacing horses?

2. Is there any objection to Thoroughbred blood in the registration of a horse as Standard-bred?

3. Can you give a good recipe for a condition powder for horses? Wellington Co., Ont.

Ans.—The requirements for registering Standard breds, trotting and pacing, were given in our June 15th issue, from which we republish the following:

The Trotting Standard.-When an animal meets these requirements, and is duly registered, it shall be accepted as a Standard-bred trotter:

1.—The progeny of a registered Standard trotting horse and a registered Standard trotting mare.

2.-A stallion sired by a registered Standard trotting horse, provided his dam and grandam were sired by registered Standard trotting horses, and he himself has a trotting record of 2.30, and is the sire of three trotters with records of 2.30, from different mares.

3.-A mare whose sire is a registered Standard trotting horse, and whose dam and grandam were sired by registered Standard trotting horses, provided she herself has a trotting record of 2.30, or is the dam of one trotter with a record of 2.30.

4.-A mare sired by a registered Standard trotting horse, provided she is the dam of two trotters with records of 2.30.

5.-A mare sired by a registered Standard trotting horse, provided her first, second and third dams are each sired by a registered Standard trotting horse.

The Pacing Standard.-When an animal meets these requirements, and is duly registered, it shall be accepted as a Standard-bred pacer:

1.—The progeny of a registered Standard pacing horse and a registered Standard pacing mare.

2.-- A stallion sired by a registered Standard pacing horse, provided his dam and grandam were sired by registered Standard pacing horses, and he himself has 2.25, and is the sire of three pacers a pacing reco from different mares. with records o

size is a registered Standard pac-3.- 1 mare ... can and grandam were sired by ing horse, and wh registered Standard period borses, provided she herself has a pacing record of a track is the dam of one pacer

with a record of 2.25. 4.-A mare sired by a rejistered Standard pacing

horse, provided she is the dam of two pacers with records of 2.25.

5.-A mare sired by a registered Standard pacing horse, provided her first, second and third dams are each sired by a registered Standard pacing horse.

6.—The progeny of a registered Standard trotting horse out of a registered Standard pacing mare, or a registered Standard pacing horse out of a registered Standard trotting mare.

Registration fee, whether Standard or non-Standard \$2; to stockholders, \$1. Official certificate of registration, 50 cents. Transfers of ownership, 25 cents. The fees charged for registration of all animals over two years of age are double the regular fees (the age of animals to be computed from the first day of January in the year in which they were foaled). For any additional information, apply to Frank E.

Best, Registrar, Ellsworth Building, Chicago, Ill. 2. Thoroughbred blood of recent introduction would interfere with registration, but might improve the quality of the stock in which it was used. A study of

the requirements above will decide individual cases.

3. While it is not a good plan to resort to chemically-prepared tonics in order to get horses into good mettle, still there are occasions when such may be quite beneficial. Such a tonic may consist of two ounces each of ferric sulphate, pulverized gentian, pulverized nux vomica, and nitrate of soda. Mix these, and give a teaspoonful night and morning in ground oats or bran. Also, give, two or three times per week, a feed of boiled oats. Feed in the regular grain food a little oil cake, as it aids digestion. Give plenty of exercise, and groom well.

## ONION-GROWING.

I have been trying onions for three years, and they grow very large but will not ripen. I have them on well manured black sand. Can you tell me why they will not ripen? They seem to grow too much stalk, and the roots grow about four inches in the ground. I planted them about 12 inches apart in rows, and hoed pretty well up to them. Does it make any difference to hill them up? What is the best time to sow black seed onions, and what soil is adapted to them? The first year my crop ripened fairly well, and I kept my seed from them. Does it make any difference on this point? How deep should the seed be planted? SUBSCRIBER.

Essex Co., Ont.

Ans.-Sand is not good land on which to grow onions. They require a rich, mellow surface soil, but a firm, well-drained subsoil. It is probable this land would grow too much vegetable matter of whatever crop were sown on it. If it were well drained, potatoes or other roots might do well on it. One reason why the crop did well the first year might be on account of the rainfall. The last two seasons have been remarkable for prolonging growth. On suitable soil black seed onions are sown as early in the spring as the land can be worked, and the Spanish varieties also, unless they are started in hot-beds. When this is done, the seed is sown early in March and the plants set out as soon as the land can be made ready. In cultivating, onions should never be hilled up, but the earth should rather be drawn away from them. When well, grown, or about the last week in August, the plants should be pushed over with the back of the rake to encourage ripening. It is probable deep planting of the seed encouraged the growth of thick necks. From one-half to three-quarters of an inch is deep enough to sow the seed. The roots would not go four inches in the ground if the subsoil were firm enough. Home-grown seed should be as good

# SULPHUR AS AN INSECTICIDE.

Will sulphur, fed to cattle, prevent lice from coming on them, or will it kill them after they are on? If so, how much should be given to them, and how often? Is there any risk of giv-READER. ing them too much?

Russel Co., Ont. Ans.—The only value sulphur is to cattle is that a little of it improves their condition, and so makes the effects of lice less noticeable. great reason so many stables are infested with lice is because they are built to harbor them. and are not thoroughly whitewashed every year. It should be a hard and fast rule that the stables be whitewashed each summer, and that the cattle receive an application of crude fish oil and turpentine -eight parts oil to one of turpentine -or some other good insecticide, when they are first put up in the fall, as lice soon increase when the cattle are brought into comfortable quarters. If sulphur is given, let it be mixed with salt, kept where the cattle can have access to it at will; then they will not take too much. If given freely with their food, the effect would be to unduly open the pores of the skin and render the animals liable to catch cold.

# CLOVER SEED PER ACRE.

How many pounds of red clover seed would it be necessary to sow to an acre? I want to take one crop off and then plow it under.

Lambton Co., Ont. OLD SUBSCRIBER. Ans.—Use only clean, new seed, and sow from twelve to fifteen pounds per acre, depending upon the fineness of the seed-bed.

## CROPS AND CULTIVATION-

-A farmer has about 35 acres good arable land close by 200 acres of rocky pasture. The arable land is rough, and at present unfit for a binder. The soil is clay and clay loam, and produces excellent hay, grain, corn and root crops. He has first-class winter accommodation for cattle and sheep. Heretofore, he has threshed his grain crop, the greater part being sold or kept for seed! In winter all roughage is fed cut, with roots pulped. Towards spring hay is added to the feed. Straw and corn cut is the staple mixture during winter, but only a few animals eat the mixture up clean without roots. He thinks sin future of cutting all his grain crop for hay, so that all his roughage may be more palatable. As he is doubtful about the wisdom of the move, he would like to know the experience of others on such a method of farming, and have the "Advocate's " opinion on the following points: Could sheep breeding (with early lambs) and winter dairying be properly and profitably carried fon with such feed? What cereals or mixture of cereals would make hay of good feeding quality for the stock indicated, and for the farm team? Would it be an economical method as regards labor?

Ontario Co., Ont.

Ans.-On such a farm silage would be one of the most valuable fodders, as it would make the cut straw more palatable when mixed with it and allowed to stand a few hours before feeding, and would provide a means of storing the maximum amount of food which the farm would be capable of producing. Mixtures of grain crops, oats and barley are sometimes cut in the milk stage for fodder and cured as hay, making a very palatable and nutritious food, and might be profitably grown to a limited extent. We would not, however, advise treating all the crop in this manner, as some grain is almost indispensable. Winter dairying and sheep-raising should succeed well on such a farm, provided other conveniences and facilities are available. A mixture of cereals that yields a larger amount of grain than can be obtained from the land devoted equally to each is that of barley and oats; or if the crop is to be cut for fodder, a small portion of peas would make it still more valuable, especially for the sheep. It might be more economical to cut the cereals green, as they could then be fed without running through the straw-cutter.

# CARE OF A HEDGE.

Will you kindly advise me, through the columns. of your valuable paper, what to do with my honey locust hedge? I purchased it about seven or eight years ago from the Stratford Hedge Fence Co., and they were to come back every year and replace all dead plants, and after it was large enough, to plash it; that is, cut the roots on one side and turn it over to an angle of 45 degrees. They came back for three years, and then quit, and have never been heard of since. Can I do the plashing myself? I think it was patented. Would it be as well to trim the hedge for plashing in March, as we have not much time in seeding? W. H. H. Grey Co., Ont.

Ans.-It is just an open question whether it would not pay to remove the hedge altogether. Where labor is plentiful a few rods of hedge might be kept for ornamental purposes, but to set any length of it involves an immense amount of time and care in trimming and training. The majority of people would root this locust hedge out of the ground and be glad to get rid of it. If it is decided to retain it, any person can do the plashing. As it now stands, it will probably require a lot of pruning before anything else is done to First cut the whole growth back to about three or four feet in height, then, if it is thought best, which is not probable, it can be plashed. The job is not completed, however, with this operation, for each year the plants will require There should be no objection to pruntrimming. ing in March or any other month, when the wood is dormant. The honey locust is quite a hardy shrub, and will stand a lot of pruning, both in the top and root.

# LICE ON CATTLE.

I have twenty-six head of cattle which are covered with large blue or gray lice. I have used sheep dip and several other things, but can't get rid of them. One of my neighbors told me turpentine and raw linseed oil would kill them. What is the surest and cheapest way of treating the cattle, and the proper stuff to use? Bruce Co., Ont. M. V. M.

Ans.—These must be a thick-skinned breed of vermin. Sheep dip usually proves effective. Grease or oil of any sort generally does for them by stopping their breathing. A mixture of coal oil and raw linseed oil should be a sure cure. Coal oil alone will blister and harden the skin and take off the hair. The quickest and most effective cure we know of is insect powder (pyrethrum) commonly used for killing house flies. Sifted on the cattle from a flour dredger, we have known it to make a clean sweep of big blue lice in a single night, not a solitary sinner being left to tell the story.

ble land

e arable

a binder.

duces ex-

He has

ttle and

s grain

for seed!

h roots

to the

mixture

eat the

ninks Sin

hay, Bo

able. As

move, he

thers on

" Advo-

: Could

winter

ried on

kture dof

quality

a team ?

regards

one of

nake the

h it and

ing, and

naximum

capable

oats and

age for

alatable

rofitably

ot, how-

manner,

Winter

well on

ces and

eals that

n be ob-

each is

is to be

s would

for the

cut the

without

columns

with my

it seven

d Hedge

k every

r it was

ne roots

e of 45

rs, and since.

it was

ne hedge

uch time

H. H.

ther it

ogether.

re might

set any

of time

najority

t of the

e plash-

require

done to

about

thought

plashed.

th this

require

to prun-

ie wood

a hardy

both in

covered

heep dip

of them.

w linseed

cheapest

to use?

V. M.

vermin.

r oil of

ing their

nseed of

ster and

quickest

powder

se flies.

we have

e lice in

t to tell

McP.

HENHOUSE AND PIGGERY PLANS.

1. What would you map out as an up-to-date arrangement for the inside of a warm henhouse, that is well lighted on the S., E. and W. sides; that is 18x18 in size, and that slopes in the roof from 18 feet to 8 feet? The door is on the N.

2. The door of a pigpen for cleaning is on the No side, the door for feeding on the S. There are windows on the E. and W. The dimensions of the pen are 18x19x12 high, with cement floor. How many hogs would that house accommodate? What would be an ideal arrangement for the inside? Would an upstairs sleeping place be advisable or not? H. A.

Lanark Co., Ont. Ans.-1. In one end of this house we would arrange to have an open shed, in which the hens could scratch and exercise themselves. This room would be open on one side, either the south or east, if possible, and would have a curtain or sliding-door to close it up on very windy days. This is about the only radical change we would make in the house described, but it is certain that in connection with a warm house some such exercising place is necessary. As has often been said before, the perches should be near the floor, all on a level and large enough for the birds to Grit and dust-boxes stand on comfortably. should be installed, and the floor kept perfectly dry and clean.

2. A pen of this kind should have windows on the south side. The troughs might be made of cement, and the partition between the feeding passage and pen made of No. 9 wire. A slope in the floor of about one inch from front to back of pen is advisable. Elevated sleeping beds are best, but they need not be more than two feet nigh, and should be solid upon the ground. Where these beds are open beneath the space below becomes very foul and unsanitary, unless great care is exercised in cleaning it out frequently.

HYDRAULIC RAM.

A stream crosses my farm 500 feet from the buildings. There are at least three barrels flowing past a point every minute, and the stream has a fall of at least six inches in every 200 feet, and its bed is about 50 feet lower than the ground on which the buildings are situated. want to know if a hydraulic ram can be arranged on the stream so as to force the full of an inch or larger pipe of water to the buildings, and if so, if sharp angles in the pipe would hinder the flow? I would also like to know the principle on which a hydraulic ram works, how it is constructed, or where procured? Also, how the refuse in the water is prevented from entering and clogging up the pipe? Any additional information you may suggest will be acceptable. Renfrew Co., Ont.

Ans.—It would be necessary in this instance to secure a fall of at least three feet from the mouth of the supply pipe to the machine. The length of pipe laid to secure that amount of fall is not of much consequence, except that for any length above lifest the friction reduces the capacity of upply without adding to the force of it. With a low head and a large supply of water, as in this instance, it would be best to install a large size of machine, say No. 6, which requires a 21-inch supply pipe, and a 11-inch discharge pipe. The ram may be placed in a pit, provid there is proper drainage to carry off the waste Sharp turns in either supply or discharge pipe should be avoided. If elbows are necessary, they should be made as large as possible.

The principle of the hydraulic ram is as follows: A machine is situated at a point below the supply of water, and the water is carried to the machine through the supply pipe. This pipe must be laid on a slope, not steeper than one to five or six. The water from the supply, at the start, wastes through an opening in the pipe, but almost immediately the rush of water through this opening raises into its seat a valve, which closes the opening. The sudden cut-off produces a great pressure through the whole length of pipe and through the machine attached. This pressure opens a valve at the bottom of the dome or bell-shaped attachment, which is the principal part of the machine. The water rushes through this valve into the dome, partly filling the latter. When pressure is reduced by this escape of the water, the valve in the waste-opening drops out of its seat, and allows the water again to waste. The closing of the waste valve and the opening of the dome valve occur alternately in rapid succession, and with each alternation more water is forced in the dome. The discharge pipe passes from the bottom of the dome, and as soon as the water covers the entrance of this pipe the air in the upper part of the dome is imprisoned and becomes compressed more and more with each stroke of the waste valve. The expansion of this compressed air in the dome forces the water up the discharge pipe to a height considerably greater than the original head. The impulsive pressure given to the water by the sudden closing of the waste valve opens the dome valve against a considerable pressure above it, which a steady pressure would not be able to do. The impul-

sive action is the secret in the working of the hydraulic ram. It will be seen that a considerable proportion of the available water is wasted in the action of the machine. The machine makes use of the energy of the water supplied to raise to a greater height a small part of the water. It will be seen, further, that the dome must contain air, which by its elasticity raises the water in the discharge pipe. Anything that causes the dome to empty of air will stop the

The proportion of water that a machine will raise depends upon the ratio of head to height of discharge. In the instance given a hydraulic ram, if the water is given a fall of three feet, should be able to discharge at a point 50 feet. above it about 31 gallons of water per minute.

The refuse in the water supplied would require to be prevented from entering the machine. do not know how this could be done, except by a coarse filter at the mouth of the supply pipe. The hydraulic ram is manufactured by R. McDougall Co., Galt, Ontario. J. B. REYNOLDS.

butter, called my attention to my last year's monthly statement card, with which I have been dissatisfied. Enclosed find statement, and please state if it is correct:

A CREAMERY QUESTION

Seeing a question in your December 1st issue

from A. B., re pounds of butter-fat for pounds of

Pounds of milk, 3,950; test, 3.4; pounds fat, 134.3; price, 19.71c.; gross amount, Drawing, 3,950 pounds; price, 10c.; amount,

\$26.47 .....\$26.47 Net payment .....\$22.52 Lambton Co., Ont. R. S. T.



Chores in Assiniboia.

Ans.—The patrons of a creamery should first be clear on the difference between butter and butter-fat. Butter consists of all the fat in combination with other substances. Butter-fat is a single substance. 134.3 pounds of butter-fat is all that could be recovered from 3,950 pounds of milk that tested 3.4% fat, and if 19.71 cents was the price of butter-fat agreed upon between patron and maker, the statement was quite correct. 19.71 cents, however, is a very low figure for butter-fat at that particular date. On August 1st we quoted butter 16 to 18 cents from farmers' baskets in Toronto, and on this basis creamery butter should have been worth at least 19 to 20 cents per pound. If then creamery butter was worth from 19 to 20 cents, butter-fat should have been worth from 24 to 25 cents per pound. The using of the terms butter-fat and butter indiscriminately and conjunctively has given rise to no end of confusion and misunderstanding, and in many cases has afforded unscrupulous makers an opportunity to resort to dishonest methods of computation.

Special Clubbing Rate.

In order to greatly increase our subscription list, we make the following liberal club rate: One renewal and one new subscriber, \$2.50; one renewal and two new subscribers, \$3.25. lar subscription price, \$1.50 per year (52 numbers). Show prospective subscribers a copy of the weekly. Every farmer should have it. Address, "Farmer's Advocate," London, Ont.

EVENTS OF THE WORLD. Sir Sanford Fleming at Ottawa exchanged New

Year's greetings with Premier Seldon, of New Zealand, over the Pacific cable. The construction of a steamer 755 feet in length, or 30 feet longer than the Baltic, the largest ship in

the world, is to begin immediately at Belfast, Ireland.

3 A new automobile train, which runs without rails, has been successfully tried in Paris, in the presence of an immense crowd. The train carried sixty passengers in five wagons, and several tons of ballast.

Last year 619,980 immigrants arrived at New York, as compared with 547,157 in 1902, an increase of 72,823. This is exclusive of the three last days of the year. This migration of largely illiterate people from Central Europe must affect the standard of American citizenship.

The Pan-American Railway Co., whose headquarters are at Guthrie, Okla., with capital stock of \$250,000,-000, to build a line from Port Nelson, on Hudson's Bay, to Argentine Republic, was chartered on the 30th of December. The total length of the prospective road, which will pass through Winnipeg en route to the south, will be 10,000 miles.

The Rockefeller capitalists and Henry Clay Frick have assumed absolute control of the U.S. steel corporation, thus supplanting Morgan, Perkins, Carnegie and Schwab. The methods employed in the Standard Oil concern will be employed in the management of the steel trust, which is to be conducted on an entirely different basis to that of the past. The first move will be to lessen the salaries of the men who are drawing from \$12,000 to \$25,000 a year. -

Dr. L. J. Lemieux, of Montreal, who returned recently from the Pasteur Hospital in Paris, makes this interesting announcement: "There cannot be any doubt but Dr. Marworek, of the Pasteur Institute at Paris, has found a positive cure for all tuberculous dis-The treatment calls solely for the injection of serum discovered by Dr. Marworek; and during my stay at the Pasteur Hospital I witnessed twenty-five cures by the treatment." Patients will be treated according to the new method at an early date in Notre Dame Hospital, Montreal.

The provisions of the Preferential Tariff Bill, recently passed in New Zealand, give strong promise of bringing about lucrative trade relations between that country and Canada. The bill practically prohibits the importation of United States manufactures, and the New Zealanders are looking to Canada for many of the articles with which they have been hitherto supplied by Uncle Sam. Already letters have been received by the Canadian Manufacturers' Association, making enquiries for buggies, wagons, saddler's tools, agricultural machinery, boots and shoes, and many other articles. This promises to be one more open door through which profit may pour into Canada's coffers

After examination of the B. C. coast, Lord Dundonald, Chief of the Canadian Militia, states that Can dians need have no apprehensiveness that Fort Simpson will ever, in the event of war, be rendered useless as a port by reason of guns directed from the two small islands lately ceded to the Americans. "The only power," he said, "which can shut up Port Simpson will be the power that commands all the sea approaches to it." This should effectually silence those who have been alarmed at the statement uttered by Senator Turner, of Washington, that the United States cammanded the proposed terminus of the Grand Trunk

3 The terms of agreement proposed to Russia by Japan have been at last made public. The chief propositions are: (1) That Japan and Russia shall respect the independence and territorial integrity of both the Chinese and Corean Empires. (2) That neither Japan nor Russia shall interfere with the commercial rights already acquired by these nations in China or Corea. (3) A mutual recognition of the special interest of Japan in Corea, and Russia in Manchuria. Northern Corea is really the immediate bone of contention in the disturbance. It is held by Russia that a portion of this area, owing to certain commercial considerations, should be neutral ground. Japan insists that Corea shall be treated as a unit. The propositions advanced by Japan are, however, regarded as very reasonable, and some hope is expressed that an amicable settlement may result. That King Edward is bringing pressure upon the Ozar in favor of peace is looked upon as an auspicious sign. Nevertheless, preparations are still going on ceaselessly, and no one can tell what a day may bring forth,

Considerable attention has been directed to the Isthmus of Panama, now an idependent republic. The "Panamans" have been dissatisfied with the Government at Bagota, and the failure of the Legislature to ratify the treaty with the United States, by which the latter country was to obtain possession of the canal

# NOTES AND NEWS.

summation which would bring many advantages to the Panamans-was only the match to the kindling. On November 3rd, the secession of the 1sthmians occurred, without bloodshed, being probably due to the fact that United States warships, with explicit directions to prevent the landing of Colombian troops in Panama, were stationed at the scene of action, near Colon. That the United States Government knew that the rebellion was coming is certain. That its connivance was of as questionable a character as Senator Hoar has affirmed,

and the right to go on with its construction-a con-

remains to be seen. At all events, the treaty concluded between the Panamans and the American Republic is eminently satisfactory to Uncle Sam's interests. The Republic of Panama was officially recognized by the British Government on the 25th of Decem-

The newspapers still exploit the wonders of radium, and men of science still stand astonished before it. Monsieur and Madame Curie themselves, perhaps, little knew of the world-disturber which they were launching in the announcement of their discovery of radium. First, it appeared simply as a wondrous element, shining with a pale, glowing light that never diminished, sending forth heat that never lessened, and emitting rays whose activity burned the skin and blinded the eyes, were not the utmost caution exercised. Edison began experiments with it, but, for the time, gave them up because of the danger of handling it. Astronomers had their direction turned to it, and were led to look to its presence in comets and the sun as a solution of the "pale luminosity," as Prof. Boyer calls it, of the one, and the age-continuing heat of the other. Medical men, too, began to look to it as a benefactor in surgery and medicine, and are making judicial experiments along these lines. As yet, the price of radium is far beyond that of rubies. A single pound of it, pure, is to-day worth \$60,000,000. This tremendous value is due to the fact that tons and tons of pitchblende are required for the extraction of each pound, that the process is tedious and intricate, and that, so far, the only source of this pitchblende has been a certain spot in Bohemia, from which exports are now forbidden by the Austrian Government. It is not likely that radium may command such a figure in the near future. Prof. Alexander H. Phillips, Professor of Mineralogy in Princeton University, has discovered a radium salt in carnolite taken from Utah. It is also stated that pitchblende whose marketable qualities may be developed has been found in several parts of the United States. For the past seventy years, a firm of analytical chemists in London, England, have been using quantities of pitchblende for the extraction of oxide of uranium, which, until lately, was used extensively in the coloring of expensive glassware. The refuse was carted away and used for street ballast. So that, as a matter of fact, the firm actually paid carters to dump away matter containing radium to-day worth over \$1,000 a grain. It has been estimated that a fortune of \$5,000,000 has been thus thrown away.

# A Chance for Well-doing.

Perhaps no organization in Ontario is accomplishing more for suffering humanity than is the Hospital for Sick Children, Toronto. In it, every disease or deformity which can make life a burden to any little one is treated, and the success with which these efforts have been attended is surely the best recommendation of the efficiency of the hospital. Last year alone, of 868 children who entered it, 493 were entirely cured and 247 improved. The hospital is not local, but Provincial. Every suffering child in Ontario, whether its parents duces a heat like coal. Sawdust, compressed into are able to pay for its treatment or not, is entitled to bricks with tar, is used as a "carbyde" for making its benefits. Yet, since so many have, of necessity, to be treated gratuitously, there is a continual need for more money. The hospital cannot get along without funds, and its managers will be most grateful for any contributions that may be sent in to help on its work. A dollar means but little to the majority of people, but it may mean a great deal to some poor child. Contributions may be sent to J. Ross Robertson, Chairman, or to Douglas Davidson, Secretary-Treasurer of the Hospital for Sick Children, College St., Toronto.

# Death of John Watson.

In the recent death of Mr. John Watson, of Ayr, Ont., Canada lost one of her oldest and worthiest citizens, and a pioneer in the manufacture of agricultural implements. He was born at Glasgow, Scotland, in 1820, and after learning moulding came to America, reaching Galt about 1845, finally locating at Ayr, where he established a large, widely known and successful enterprise. He was a man of commanding infinence because of his probity, intelligence and strength of views, being well entitled to rank as me of the makers of industrial Canada. He leaves a family of three sons and two daughters. John George is postmaster of Ayr; William D. is at the head of the firm; Alfred is also associated with the bouness. James, the third son, died at college in the United States. Of the daughters, one is head of the Domestic Science Department at the Ontario Agricultural College, and the other is at home.

Parties of Finlanders are settling in the Lake St. John district, Northern Quebec.

A white deer was shot recently in Northern On-11111 tario.

Building improvements in Calgary during 1908 are estimated at \$700,000.

A rich strike of gold has been found near Webbwood, B. C., on the line of the C. P. R. A discovery of rich ore has also been made in the Atlin shaft, Ymir,

The practicability of the navigation of Hudson's Bay and its adjoining straits by ocean vessels, to form an outlet for the northern part of the West, is now being investigated by an expedition sent out by the Dominion Government.

The Grand Trunk Pacific will be the "open sesame" to the great Peace River district.

On the general tide of prosperity in Canada, Newfoundland has come to the fore. Its lumber resources are being exploited, and pulp mills being built, and a new cold storage company is making arrangements for going into immediate business. "Winnipeggers," in the near future, may be privileged to eat "fresh" fish caught off Cape Race, as a change from "home caught."

Lumbering is booming in N. B. Donald Fraser & Sons, of Fredericton, have now over 2,000 men at work in the woods in the Tobique and other districts. Scott Brothers, also of Fredericton, are also pushing forward extensive operations in the timber districts.

On account of the boll-weevil, the cotton-raising industry of Texas seems doomed. It is held, however, that the State is suited for the raising of grain and cattle, as well as sugar-cane, tobacco and rice.

An edible mushroom weighing upwards of five pounds was found last season in the Forest of Fontainebleau, France. The wet season in France was very conducive to the growth of all sorts of fungi, also to snails, which are there used extensively for food, being called the "poor man's oyster." The finest of these edible snails are reared by Capuchin Monks in an especial snail-park.

The work of forestry is being rapidly pushed forward in the U.S. The total area in national forest reserve is now 63,000,000 acres.

Large quantities of eggs, put up in bottles in liquid form, whites and yolks separate, are exported from Germany. The greater quantities of these bottles go to New Zealand.

At the Ontario Beekeepers' Convention, Trenton, Ont., Prof. James said that there is an unlimited market for first-class honey, but that too little of the firstclass article and too much second and third is offered for sale in Canada.

"You should have studied the time-table," said the gateman to the belated traveller, "then you wouldn't have missed your train."

"You talk like a \$1.98 phonograph," replied the angry left-over. "The train pulled out while I was trying to translate the time-table."

There are now 19,398 rural delivery routes in the United States. When shall we have one in Canada?

Principal Reichel, of University College, Wales, who came with the Moseley Educational Commission to Canthe Guelph Agricultural College is the best

Wood shavings, which used to be thrown away, are now compressed into fuel, which burns slowly and pro-

> 'She came up to the country But a week or so ago, This city maid who ne'er had seen The fields where wild flowers grow And when she saw the cat-tails, She cried, "Oh, do look, quick! Who ever heard of sausages A-growing on a stick!'

Siberia, so long the land of mines and convicts, bids fair to come forward as an important dairying country. There are already about 2,000 butter manufacturing establishments in the country. Though not of A1 grade as yet, the quality improves every year.

In a recent lecture at the R. I. Agr. College, Mr. R. S. Handy, of Cataumet, Mass., in which vicinity cranberries are extensively raised, said that \$175 per acre should be the net profit from a cranberry bog in which conditions and care are favorable.

Five hundred boxes of B. C. apples, grown in the Kelowna district, and shipped to Scotland, have arrived in good condition. The Chilliwack Progress says: "As this is believed to be the first shipment as a commercial venture from this Province to the Old Country . . . the success of the experiment will very clearly demonstrate the enormous possibilities for fruitgrowing for profit in B. C."

Fruits and vegetables are canned annually in the U. S. to the value of more than \$45,000,000.

A beet-sugar factory, which is to have an annual output of 11,000,000 lbs. of sugar, is being built in Turkestan, Russian Asia.

Statistics for the past year show the rapidity with which Manitoba and the Territories are being settled. During ten months of 1908 the homestead entries amounted to 29,764, as contrasted with 18,417 during the corresponding ten months of 1902. C. P. R. land sales in 1908, up to Nov. 80th, show a total of 1,684,600 acres; while, during the same period, 110 new post offices were recorded.

An interesting exhibit at the World's Fair, St. Louis, this year, will be that of a quantity of catalpa timber, grown from seed so as to be a source of profit in twenty years.

In November of 1903, the potato imports of Great Britain aggregated between one and two million cwt., valued at about £380,000. In 1901, the imports were only about 200,000 cwt., valued at £88,000. The difference is chiefly due to potato rot.

Mr. Fred Bodfish, King, Ont., upon two acres of sugar beets last season realized a profit of \$103.45.

All new schools in Switzerland have baths attached. Each child is compelled to "use soap" regularly.

The tallest building on earth is to be erected in New York soon. The height of the new building will be 615 feet, and its cost, including the site, \$10,000,-

The C. P. R. people are preparing to develop the anthracite coal bed recently discovered near Banff. The seam of coal, which is said to be of excellent quality, is about ten miles long and from six to ten feet thick.

Numerous deposits of gold, silver and copper ores have been discovered at Chetecamp, Cape Breton. Dr. Gilpin, head of the Provincial Mines Department, says that from present indications the ledge of ore is among the largest in the world.

The Exhibition Executive, City Council, and Board of Trade, Winnipeg, are decidedly enthusiastic over the prospects of holding a Dominion Exhibition in Winnipeg next summer.

Two hundred students have been attending the short course in stock-judging at the O. A. C., Guelph, Hon. John Dryden, Mr. John Gosling, Kansas City, Mo., and Mr. A. W. Smith, Maple Lodge, Ont., assisting the professors.

Hon. John Dryden announces that the work of cheese-factory inspection and instruction will be extended and improved in 1904.

# South Perth, Ont.

The golden weather of autumn has been succeeded by continuous, but moderate, winter weather, with gradual snowfall, which has increased the depth of "the beautiful" to several feet on our roads, and made sleighing permanent. But while the farmer appreciates good sleighing, we think that few of them would object to a thorough melting of the snow if such would increase the depth of water in the wells. The scarcity of water is a serious matter with most farmers in this section at the present time, and artesian-well drillers are kept very busy. The sinking of these wells to the rock water seems the only permanent solution of the problem; but the remedy, like all permanent and valuable improvements, is a relatively costly one. In this district, except within a few hundred rods of the river, the depth of soil on the rock averages somewhere about a hundred feet, and the depth to suitable springs in the rock will usually average fifty to one hundred feet more, making a well which necessitates power pumps, and if (as should be) the water is forced the total cost may run up to four or five hundred dollars. But if the first cost seems great, the ultimate advantage is probably well worth the outlay. Abundance of pure water is almost certain to save several large doctor bills in the course of one's life, besides the great advantage to stabled stock always having before them abundance of pure water at suitable temperature, and last, but not least, the immense saving of labor in pumping. Labor takes time, and time is

Since the commutation of statute labor in the various townships, we have watched with interest the effect upon our roads, and if our observation is correct, we are bound to say that the ideal of the advocates of the new system has not yet been reached. We believe that for general traffic the surface has been greatly improved. A system of general repair rather than indiscriminate building up has been followed, producing less inconvenience from new gravel and a better apportionment of the material. The more liberal use of the grader has also greatly benefited in smoothing the surface and allowing opportunity for water to escape. But we cannot help an uneasy impression that this is largely being done at the expense of past labor. Good roads cannot be made without material, and plenty of it. There is a constant and heavy wearing, due largely to narrow tires, and this must be replaced by large quantities of material, and for this work the statute labor system was generally superior in getting a maximum amount of material with a minimum of cost to the taxpayer. Apparently, for fear of arousing hostility to the new system of direct taxation, many townships have been scrimping the supply of material, but cannot do so long with impunity. We think that if this objection were overcome, and the pathmaster's duties more clearly defined and enforced, we would much prefer the present system to the former. But under any system, never expect to see really good roads till the gravel is screened and wide tires adopted. J.H.B.

ED 1866

idity with

g settled.

d entries

17 during

P. R. land

total of

eriod, 110

Fair, St.

of catalpa

e of profit

of Great

llion cwt.,

ports were

000. The

acres of

attached.

erected in

ilding will

\$10,000,-

evelop the

Banff. The

nt quality,

feet thick.

opper ores

reton. Dr.

nent, says

of ore is

and Board

c over the

in Winni-

the short

elph, Hon.

, Mo., and

isting the

work of

ill be ex-

cceeded by

th gradual

the beauti-

e sleighing

ates good

object to

ld increase

carcity of

rs in this

ell drillers

ells to the

ion of the

and valu-

e. In this

the river.

here about

rings in the

feet more,

ps, and if

e hundred

e ultimate

y. Abun-

ve several

fe, besides

ays having

ble temper-

saving of

d time is

or in the

nterest the

on is cor-

the advo-

eached. We

has been

pair rather

owed, pro-

d a better

liberal use

smoothing

water to

ession that

past labor.

erial, and

y wearing,

e replaced

work the

in getting

inimum of

of arousing

ion, many

material,

think that

thmaster's

ould much

But under

roads till

J.H.B.

\$108.45.

larly.

# Lincoln County Prospering.

The year of 1903 was one of plenty and prosperity throughout Lincoln County. Well-filled barns and granaries bespeak the success that has crowned the efforts of the farmer in Niagara Peninsula. The spring opened full, with little freezing and thawing, which is so disastrous to wheat and clover. Although the land worked somewhat hard, the spring crop was put in in very good shape. In 1902, the grass pea was a total failure, turning only about two and a half to three bushels per acre, and many farmers thought that 1903 might prove better. Consequently, quite a large acreage was sown, with but little better results. In some cases, an average yield was fourteen bushels per acre. Outside the grass pea, the crop yield was splendid. Oats turned out well, both in weight and quantity. The American Banner variety stands the test here about as well as any variety that has been tried. Spelt is becoming quite a popular crop, too. Its yield in some instances is enormous. It makes a grand chop when mixed with some other grain. Corn did not do much for the first month or so after planting, but when a start was made it grew rapidly, and a good yield was the result. A great deal of fodder and ensilage corn is sown here of late.

The silo is becoming quite a popular thing here, and more dairy cows are being kept. Good grade cows sell from \$35 to \$55 in price.

Hay, which was a heavy crop, sells from \$8.50 to \$10.00. Quite a large amount of hay will be fed this winter, as the farmer is beginning to see the benefit of raising more cattle, instead of teaming his hay to market, thereby impoverishing his farm.

The root crop was grand, except turnips. These the louse destroyed. Mangels, both red and yellow, sugar beets and carrots were the heaviest yield for years.

There was a serious drawback in the apple business here on account of the "barrel famine." Many apples went to waste. Fall plowing was very backward, and a great amount of spring plowing will necessarily have to be done, which does not prove as satisfactory as fall plowing by far.

There have been a great many hogs shipped to Toronto and other places during the past couple of years, as many as 550 leaving Smithville station in one day. Hog-raising, too, has been more profitable for farmers than selling their grain, as it benefits their farms to a considerable extent.

Taking in all, the season that is past has been one of plenty, and the spirit of the farmer is more cheerful than it was some years ago. By the taking of the "Farmer's Advocate" and learning its principles of improved farming, the tiller of the soil can look to 1904 to be even more grand and prosperous.

# P. E. Island.

I. E. N.

We have had close winter here for about two weeks, but there has been very little snow-just enough to get round on with sleighs. The first week in December a combination sale of pure-bred cattle, sheep and swine was held on the Exhibition Grounds, Charlottetown. There was quite a large number of animals offered by Island breeders, but the sale was not a success, very few changing hands. The day was stormy, and the sale was not largely attended. Quite a large number of Island farmers attended the Winter Fair at Amherst. Roper Bros. had two of their Guernsey cows in the milking test, and got one first prize. A. Boswell, the noted sheep breeder, was a very successful exhibitor of sheep, and J. W. Calbeck, our leading Yorkshire breeder got the cream of the prizes in his line, as well as a silver tea service and a silver cup which were given as specials. The Winter Fair was a grand success. The attendance was all that could be expected. Many of the animals shown would compare well with those we have seen at Guelph. Our Maritime Winter Fair is here to stay, and will be a great means of educating our farmers and inducing them to raise the quality of their products. It was the writer's first visit to this exhibition, and the size of the building, the number of animals exhibited-about 250 in all, without poultry, of which there were over 700 birds-the immense lectureroom, seating about 2,000 people, and full every afternoon and evening, was a great surprise to him. The addresses by Prof. Mills, O. A. C., Hon. John Dryden, J. H. Grisdale, Duncan Anderson and Prof. Andrews, of Mount Allison University, were of very great interest. We were especially interested in the address of Hon. John Dryden on "Æsthetic Agriculture," and in Prof. Andrew's address on "The Functions of Air in Agriculture." We would like to see many more of our farmers at this show, as we believe it to be the agricultural show par excellence of the Maritime Provinces.

The hog market has been badly demoralized here of late. There has been such a rush of hogs that the packers have had things all their own way. Best quality live hogs are now only worth 4c. A large proportion of our hogs are slaughtered, and either packed here or shipped in carcass to St. John and Halifax. There is a large trade the last two months between here and Sydney and other Maritime ports in beef quarters. Shipments of smelts are large, and the price good. This latter business gives employment to farmers during the first of the winter, and is often quite profitable.

We look forward with interest to the weekly "Farmer's Advocate," and we predict for it a still larger field and greater usefulness than it has enjoyed previously. We know of no agricultural journal that has in the past been such a great factor in improve-

ment along agricultural lines. Wishing the "Advocate" every success, and its staff the compliments of the season.

W. S.

# The Voice of the People.

Jas. Currie, Prince East, P. E. I., says:—"I don't want to miss a copy of the 'Advocate,' for it is a great paper. I will try to get new subscribers."

Jas. Lindsay, Sr., Wellington Co., Ont.:—"I don't want to lose any of the numbers of the 'Advocate.' We are well pleased with it, and would not like to do without it. I wish you every success in your new venture."

E. W. Common, Fillmore, N. Y., U. S. A.:—"The 'Advocate' is one of the leaders of the day. I should have liked to have got you more subscribers, but it is impossible at present. Maybe, later on, I can help to get you a few more."

A. B. Clarke, King's Co., N. S.:—"I did not have any trouble in getting the new subscriber. He just said, 'Well, I used to take that paper, and I know what I am getting."

Geo. F. Bellamy, Durham Co., Ont.:—"I also congratulate you upon sending this wonderful and helpful paper as a weekly."

Robert Harvey, Maisonneuve, Que.:—"I have much pleasure in sending the name of a new subscriber, accepting your offer with thanks. I am looking forward to getting your paper every week, and would not be without it even if it cost double the money for all the valuable information we get in it."



Hon. A. G. Blair.

Late Dominion Minister of Railways and Canals; recently appointed chairman of the Canadian Railway Commission.

H. I. Elliott, Richmond Co., Que.:—"I am sure the farmers and public will appreciate your efforts, which will make the 'Farmer's Advocate,' not only the leading farm journal in Canada, but on the continent. Wish you every success and the compliments of the season."

Geo. Mansfield, Carleton Co., Ont.:—"I still have

the knife I received from you two years ago, and it is as good as ever yet. Wish you every success."

S. Smith, New Westminster, B. C.:—"We appreciate your enterprise in giving us a weekly instead of a

your enterprise in giving us a weekly instead of a semi-monthly paper."

Blake Mott, Leeds Co., Ont.:—"I will try to get

you some more subscribers, and I wish to say the 'Farmer's Advocate' is the very best, and ought to be in every home."

S. G. Hogle, Lennox Co., Ont.:—"I am sending

you one new subscription with my own, according to your offer. I can always recommend the 'Advocate' to every one who wants a first-class farm paper. It always seemed a long time between 'Advocates,' and I do not think there will be any too many if they come every week. I wish you success in your new venture, and all the compliments of the season.''

Alex. Hunter, Wellington Co., Ont.:—"I have read your paper for a long time. I got it first in 1866. I am getting to be an old man now, but I made up my mind to keep it on. If you will send me some blank forms I think I can get you some new subscribers. I am a great bee man, so I only farm twenty-five acres; but my son farms, and I got him to send for the 'Farmer's Advocate,' too. I always speak a good word for the 'Farmer's Advocate.' Please send me some sample copies."

W. J. Owens, Carleton Co., N. B.:—"I consider the 'Advocate' the best farmer's paper in Canada or the United States. It ought to be taken by every farmer."

# The C. P. R. Irrigation Scheme.

Speaking recently of the C. P. R. irrigation project in Alberta, Superintendent of Irrigation, J. S. Dennis, stated that extensive engineering surveys have been completed, and they are now considering the actual work of canal construction.

The main canal will head in the Bow River, on the east side, about three miles below Calgary. This canal will carry two thousand cubic feet of water per second, but to convey a more graphic illustration of its size to the ordinary reader it may be stated that it will be sixty feet wide in the bottom, and will carry water to a depth of ten feet. The main canal is about twenty miles long, and is simply a transporting artery to bring the main body of water from the river to the most convenient point for distributing it throughout the area.

At its easterly end, the water is taken out in three secondary canals, which are located along the heights of land so as to enable the water carried therein to be easily distributed over the smaller areas which will be cultivated.

The secondary canals so far located comprise a length of about one hundred miles, and the total mileage of distributing canals will ultimately reach some four hundred miles in length. It is expected that about fifteen hundred thousand acres of land will be irrigated within the block of three million acres when the scheme is finally completed, the balance of the block being devoted to grazing and dairy farming.

It is not, of course, intended to proceed at once to construct the whole system of distributing canals, but simply to put in the main canal, and then build the secondary or distributing canals as the demand for land arises and development warrants, and it will probably take several years to complete the whole system, which, in its completed state, is expected to cost about four million dollars.

If this scheme is carried through, it will have the result of transforming a tract of country one hundred and fifty miles in length from east to west, by fifty miles from north to south, now only the home of a few scattered bands of cattle, into a densely populated and prosperous agricultural district, with the centers of trade and industries naturally resulting therefrom, and the company will be in a position to point with pride to one of the great undertakings of the West, whose ultimate object is to make happy homes for a large and prosperous agricultural population.

# Good Year in Lanark.

I am quite satisfied in the "Farmer's Advocate," without any premium. We have had a very successful season here. We sold a pair of Clyde fillies-one three, the other four years old-for \$300. Cattle sold well all through the autumn months-two-year-olds for \$30, \$35 and \$38; lambs, \$3.50 to \$3.75 per 100 lbs., live weight, and turkeys, 15c. per lb., dressed. Our wheat averaged twenty-six bushels to the acre; variety, Red Fife. I would like Western breeders, when advertising in the "Advocate," always to give their county. Here, in the East, we know all the counties in Ontario, yet there are a number of small towns we do not know, unless we look them up on the map. We find that seed grain from Ottawa or Guelph Experimental Farms yields well when other home-grown grains are almost a failure. The Ontario Government should pay the salaries of the instructors for cheese factories. We had a grand season in the cheese business - high prices all through, and number one cheese.

Wishing you a prosperous New Year for the "Advocate," I remain, JAMES G. KIDD. Lanark Co., Ont.

# World's Fair Monthly.

The World's Fair Pub. Co., of St. Louis, U. S. A., is issuing, monthly, a most elaborate bulletin, whose purpose is to set forth the multifarious attractions which are to make St. Louis the Mecca for sight-seers next summer. Judging from the December number, of which we are in receipt, we should say that the great fair of St. Louis promises to be in no way inferior to those of Paris and Chicago; in fact, its promoters propose to outdo all that ever has been in the exposition line.

# Railway Commission Chairman.

Hon. Andrew George Blair, K. C., who a few months ago resigned his position as Minister of Railways and Canals, owing to his disagreement with the Dominion Government in regard to the proposed construction of the Quebec-Moncton division of the Grand Trunk Pacific Railway, has now been appointed chairman of the Canadian Railway Commission, the act for which was passed at last session of Parliament. Hon. Mr. Blair was the author of the Bill, and piloted it. through the House, and it is believed to be the best that has yet been devised in any country for the regulation of railways and rates in the interests of the people. Mr. Blair is of Scottish descent, being born on March 7th, 1844, at Fredericton, N. B. After practising law for twelve years, he entered Provincial politics in 1878, and was for many years Premier of New Brunswick. In 1896, he entered the Dominion Government under Premier Laurier as Minister of Railways and Canals, holding office till his recent resignation. It is understood his salary as chairman of the commission will be \$10,000 per year. Mr., Blair has the reputation of being a fighter, and can, if he will, be of great and vital service to the most important of Canadian industries-agriculture-and in the mutual development of trade between the west and the east.

## Duty on Horses.

A deputation from the Canadian Horse-breeders' Association waited on the Dominion Government on January 8th, asking that, instead of the present twenty-per-cent. duty on horses coming into Canada, the tariff be raised to \$30 on horses of the value of \$150 and under, which is the U.S. rate; over \$150 in value, the U.S. rate is twenty-five per cent. ad valorem. A great deal of surplus U. S. scrub horse stock of low valuation is run into Canada and sold, to the detriment of Canadian horse interests. Pure-bred stock for breeding purposes enters free, but complaint is made that spurious pedigrees have been used for that purpose. The Government promised to consider the matter carefully.

## N. S. Farmers' Association.

The annual convention of the Nova Scotia Farmers' Association will be held in Truro, on Tuesday, Wednesday and Thursday, February 2nd, 3rd and 4th, at which a large attendance of delegates from agricultural societies and county farmers' associations is expected. A cordial invitation is extended to all agriculturists and those interested in rural pursuits to be present. This promises to be the most profitable convention ever held by the Association. Besides general business, addresses will be given by prominent practical agriculturists, and the afternoon sessions will be held in the new live-stock pavilion, at the Provincial Farm, when demonstration lectures, with live animals as objects, will be given. Reduced railway rates will be given by asking at starting point for a one-way first-class ticket to Truro and a standard certificate, which, on being signed by the secretary at the convention, entitles the bearer to a return ticket free. Mr. Chas. R. B. Bryan is the secretary.

# MARKETS.

# Chicago Live Stock Market.

Chicago.—Cattle—Good to prime steers, \$5 to \$5.65; poor to medium, \$3.50 to \$4.90; stockers and feeders, \$2.35 to \$4.25; cows, \$2 to \$4.50.

Hogs-Market steady; mixed and butchers', \$4.60 to \$4.95; good to choice heavy, \$4.85 to \$5; rough heavy, \$4.60 to \$4.80; light, \$4.50 to \$4.70.

Sheep-Sheep and lambs steady; good to choice wethers, \$4.10 to \$4.50; fair to choice mixed, \$3.25 to \$4; native lambs, \$4 to \$6.30.

# Montreal Markets.

Montreal.—About 1,100 head of cattle, 60 calves, 80 sheep and lambs, and 35 milch cows offered. Trade good, but prices of cattle considerably lower than last week, the decline being greatest in common stock, which constituted more than three-fourths of the offerings. Prime beeves, 41c. to 5c. per lb.; pretty good, 41c. to 41c., and common stock, 21c. to 31c., and the lean canners at 11c. to 2c. per lb. Most calves (young "bobs"), about \$3 each. Sheep, 34c. to 34c., and lambs, 41c. to 41c. per lb. Good lots of fat hogs, 51c. per lb. Milch cows, slow sales, and prices lower than in autumn, a few going from \$25 to \$50 each.

# Buffalo Markets.

East Buffalo.-Cattle-Steady, unchanged. Hogs-Heavy and mixed, \$5.30 to \$5.35. Sheep and Lambs-Lambs, \$5 to \$6.60; yearlings, \$4.75 to \$5.50; wethers, \$4.50 to \$4.75; ewes, \$4 to \$4.25; sheep, mixed, \$2.50 to \$4.25.

# British Cattle Market.

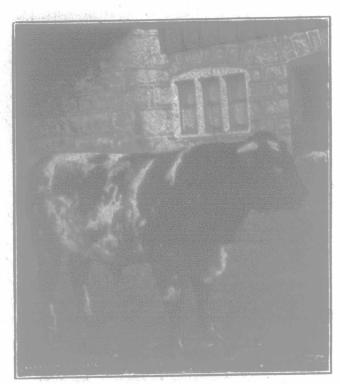
London.-10c. to 12c. per lb. for American steers, dressed weight; Canadian steers, 91c. to 111c. per lb.; refrigerator beef, 8c. per lb. Sheep, 111c. to 12½c. per lb. Lambs, 13½c., dressed weight. Liverpool.-American cattle, 51d. to 51d.

Read Theo. Noel's full-page announcement regarding the remedy, "Vitæ-Ore," on back cover of this issue.

# Toronto Markets.

War reports have been causing, and are likely to cause, slight variations in the price of wheat, but the monotony of the daily reports of the very serious condition of affairs in the East has had a tendency to allay the nervousness of the market. Oatmeal has at last responded to upward pressure, and is now quoted 30c. per bag higher. The cattle trade still continues slow, owing, dealers say, to dullness in the British market. The receipts of stock on the Toronto markets have not been large of late, and everything offered has been readily bought. The quality of fat cattle offered has, on the whole, been moderately good. Best butchers' are quick sellers. The situation in hog prices about Peterboro last week is explained by the activity of the local factory and the presence of Montreal buyers. More settled conditions now prevail. An advance of 10 cents over last week is quoted here. Slight advances in meats are reported from the British market.

Quotations on this market are: Exporters-Best loads, \$4.50 to \$4.75 per cwt.; medium, \$4.25 to \$4.50.



Diamond = 44695 = .

A Scotch bull of the Miss Ramsden family. Calved August 18th, '02. Weight, 1,195 lbs. at one year old. First in junior yearling class at Toronto, '03. Property of W. D. Flatt. To be sold at the joint sale at Hamilton, Ontario, January 20th, '04

# Bulls, \$4 to \$4.25.

Cows, \$3.60 to \$4 per cwt.

Butchers' Cattle-Choice picked lots, 1,100 to 1,175 lbs. each, equal in quality to the best exporters, \$4.30 to \$4.70; good, \$4 to \$4.25; fair to good, \$3.60 to \$3.85; common, \$3.15 to \$3.30; rough to inferior, \$2.25.

Feeders-Steers of good quality, 1,050 to 1,150 lbs., \$3.50 to \$3.80 per cwt.

Bulls-Bulls for the distillery byres, \$2.50 to \$3. Stockers-One-year to two-year-old steers, 400 to 700 lbs. each, \$2.75 to \$3 per cwt.; off-colors and of poor breeding quality, of same weights, \$2 to \$2.50 per cwt.

Milch Cows-Milch cows and springers, \$35 to \$55. Calves-Calves, \$2 to \$10 each, or from \$4 to \$5.50 per cwt. Sheep-\$3.25 to \$3.75 per cwt. for ewes, and bucks,

\$2.50 to \$3. Spring Lambs-\$4.40 to \$4.60 per cwt., and \$4.75

to \$5 for choice ewes and wethers for export.

Hogs-Best select bacon hogs, fed and watered, \$5.25; lights and fats, \$5; sows, \$8.50 to \$8.75; and stags, \$2 to \$2.50.

## PRODUCE. Wholesale Prices.

Flour-Manitoba, first patents, \$4.80 to \$4.90; Manitoba, second patents, \$4.50 to \$4.60; and \$4.40 to \$4.50 for strong bakers', bags included, on track at Perento; ninety-per-cent. patents, in buyers' bags, east or middle freight, \$8 to \$8.05; Manitoba bran, sacked, \$18 per ton; shorts, sacked, \$20 per ton, at Toronto.

Wheat—Red and white are worth 78c., middle freights; goose, 72c., middle; Manitoba No. 1 hard, 97c. to 98c., grinding in transit; No. 1 northern,

Barley-No. 2, 42c.; No. 3X, 39c. to 40c.; and No. 3, 36c. for export. Oats-Oats are quoted at 27c. north, 28c. middle,

30c. east, for No. 1. Corn-Canadian, arriving in poor condition, at 42c.

to 44c.; American, 55c., on track at Toronto. Peas-Peas, 611c. bid, high freight. Rye-Quoted at about 52c. middle, and 52c. east.

Buckwheat-Buckwheat, 47c., eastern freights. Oatmeal-\$4.10 in bags, and \$4.25 in barrels, car

lots, on track, Toronto; broken lots, 80c. higher. Bran-City mills sell bran at \$16, and shorts at \$18, car lots, f. o. b. Toronto.

Hay, baled, car lots, ton\$9.	00	to	\$9.50
Straw, baled, car lots, ton 5.	00	to	5.75
Dressed hogs, car lots 6.	10	to	6.15
Potatoes, car lots	80	to	85
Butter, dairy, lb. rolls	17	to	18
The control of the co	16	to	17
Butter, creamery, lb. rolls	22	to	28
Butter, creamery, boxes	20	to	22
	14	to	15
	20	to	22
	10	to	12
	10	to	11
Ducks, per pair	75	to	1.00
Chickens, per pair	60	to	1.00
Honey, per lb	8	to	9
Cheese-Trade is quiet. The tone is	fir	m.	Cheese
rge, per lb., 10½c. to 11½c.; cheese,	twi	ins,	11 to
SEEDS.			

Market is not booming, but prices continue fair. Red clover shows more activity than alsike. Prices are: Alsike, choice, \$5.50; lower grades, down to \$4; red clover, \$5.50 to \$6.25; timothy, \$1.50 to

RETAIL PRICES, TORONTO ST	REET	М	ARKET
Wheat, red, bush\$	0.81		
Wheat, white	82		-
Wheat, spring	88	ŀ	
Wheat, goose	74	to	\$ 0.75
Barley	43	to	4-6
Beans	1.35		
Peas	55		
Rye	54		
Oats	32	to	32
Hay, timothy, per ton	10.00	to	11.00
Hay, clover, per ton	6.00	to	8.00
Straw, per ton	9.00	to	10.00
Dressed hogs, per cwt	7.50	to	7,75
Heavies	7.00	to	7.25
Potatoes, per bag	70	to	77
Turkeys, per lb	15	to	16
Geese, per lb	11	to	12
Ducks, per lb	18		
Chickens, per pair	75	to	1.50
Chickens, very choice, per pair	1.75		
Eggs, new-laid, per doz	40	to	45
Apples, per bbl	1.00	to	2.00

Live-stock Shipments.

Bickerdike & Co., Ltd., Montreal, compile the following statement of live stock shipped from the ports of St. John and Portland for week ending January 4th: Cattle, 2,082; sheep, 888.

..59

## THIS ISSUE CONTENTS FOR

ILLUSTRATIONS.
Fred S. Black, Amherst, N. S49
Stanley A. Logan, of Logan Bros49
Snap-shot of a Bunch of Shropshire
Lambs
Famous Pride (imp.) (83459)
Chores in Assiniboia6
Hon. A. G. Blair63
Diamond =44695=64
EDITORIAL.
Resolutions for 19044
Improvement of Fairs4
The Dominion Exhibition for Winnipeg. 48
Are the Lumbermen's Methods of Man-
ufacturing Up-to-date4
Domestic Servants on the Farm4
HORSES.
Stallioners' Lien Act4
Where the Horse Suffers4
Clydesdale Folklore4
STOCK.
Feeding calves for Beef
The Clicago Judging Contest
Stock-raising Declining in Sectland5
Live-stock Sales in England in 19035
Feeding Sheep in B. C
nogs in Canada
FARM
The Season's Yield at Agassiz, B C.5

Our London Letter51
The Potato Crop52
"Kno Bug" Analyzed52
Barn Plans (illustrated)
Cutting up Beef (illustrated)52
A Year with Sugar Beets52
Our Old Chop Box and the New One
(illustrated)53
A Modern Farmhouse (illustrated)53
Can. Farmer and Preferential Trade54
Not for Joseph54
Careless Writers54
Post-Graduate Course for Farmers'
Sons 54
DAIRY
Slow-churning Cream55
The Dairy Cow
Dosing for Milk Fever56
Watch Your Skim Milk56
Diluting Cream56
APIARY.
Ontario Beekeepers' Association
POULTRY.
Scratchings57
Encourage Exercise57
Increasing Egg Production in Poultry.57
Poultry Raising57

K Inis issue.
Watering Poultry in Winter (ill's'd)57 Sloppy Food; Toronto Poultry Show.57 A Tame Flock
GARDEN AND ORCHARD.
The Northwest Fruit Trade
QUESTIONS AND ANSWERS.
Veterinary.  Elephantiasis and other troubles; switching cclt; muscular cramp; ram with paraplegia; chronic mammitis and induration; grooming brood mare, etc.; miscellaneous; colt with weak knees, etc
Miscellaneous.
Barn plans; Tobacco growing; Apples for cows

registering Standard-breds-condition powder; onion growing; sulphur as an insecticide; clover seed per acre; crops and cultivation; care of hedge lice on cattle .....

Henhouse and piggery plans; hydraulic
ram61
EVENTS OF THE WORLD.
Events of the World61
NOTES AND NEWS.
A Chance for Well-doing
Death of John Watson
South Perth, Ont62
Lincoln County Prospering; P. E. Is-
land; The Voice of the People; The
C. P. R. Irrigation Scheme; Good
Year in Lanark; World's Fair Month-
ly; Railway Commission Chairman68
Duty on Horses; N. S. Farmers' Asso-
ciation64
MARKETS.
Chicago; Toronto; British; Buffalo;
Chicago; Toronto; British; Buffalo;
Chicago; Toronto; British; Buffalo; Montreal64 HOME MAGAZINE.
Chicago; Toronto; British; Buffalo; Montreal64
Chicago; Toronto; British; Buffalo;
Chicago;       Toronto;       British;       Buffalo;         Montreal
Chicago; Toronto; British; Buffalo;
Chicago;       Toronto;       British;       Buffalo;         Montreal       64         HOME MAGAZINE.         The Quiet Hour       66         Health in the Home       66         The Children's Corner       67         The Doll's Bath (illustration)       67
Chicago;       Toronto;       British;       Buffalo;         Montreal       .64         HOME MAGAZINE.         The Quiet Hour       .66         Health in the Home       .66         The Children's Corner       .67         The Doll's Bath (illustration)       .67         With the Flowers       .67         Ingle Nook Chats       .68         GOSSIP       .70, 71, 72, 73, 74, 75
Chicago;       Toronto;       British;       Buffalo;         Montreal       64         HOME MAGAZINE.         The Quiet Hour       66         Health in the Home       66         The Children's Corner       67         The Doll's Bath (illustration)       67         With the Flowers       67         Ingle Nook Chats       68         GOSSIP       70, 71, 72, 73, 74, 75         76, 77, 78
Chicago;       Toronto;       British;       Buffalo;         Montreal       64         HOME MAGAZINE.         The Quiet Hour       66         Health in the Home       66         The Children's Corner       67         The Doll's Bath (illustration)       67         With the Flowers       67         Ingle Nook Chats       68         GOSSIP       70, 71, 72, 73, 74, 75         76, 77, 78         TRADE TOPICS       71, 75
Chicago;       Toronto;       British;       Buffalo;         Montreal       64         HOME MAGAZINE.         The Quiet Hour       66         Health in the Home       66         The Children's Corner       67         The Doll's Bath (illustration)       67         With the Flowers       67         Ingle Nook Chats       68         GOSSIP       70, 71, 72, 73, 74, 75         76, 77, 78



"Still one word, as a motto, we will write
Upon the forehead of the newborn year,
May it be ours till faith is lost in sight.
May it be our strong hope to banish fear;
That word is 'hope,' and may its cheering light,
Through storm or sunshine, still be clear and bright."

# A FAIR BARBARIAN.

BY FRANCES HODGSON BURNETT.

## CHAPTER IV.—Continued.

"Don't you think it is nicer out here?" said Octavia.

"My dear," answered Miss Belinda. "Lady Theobald"— She was really quite shocked.

"Ah!" interposed Octavia. "I only thought it

She preceded them, without seeming to be at all conscious that she was taking the lead.

"You had better pick up your dress, Miss Octavia,"

said Lady Theobald rather acidly.

The girl glanced over her shoulder at the length of train sweeping the path, but she made no movement toward picking it up.

"It is too much trouble, and one has to duck down so," she said. "It is bad enough to have to keep doing it when one is on the street. Besides, they would never wear out if one took too much care of them."

When they went into the parlor, and sat down, Lady Theobald made excellent use of her time, and managed to hear again all that had tried and be-wildered Miss Belinda. She had no hesitation in asking questions boldly; she considered it her privilege to do so, she had catechised Slowbridge for forty years, and meant to maintain her rights until Time played her the knave's trick of disabling her.

In half an hour she had heard about the silvermines, the gold-diggers, and L'Argentville; she knew
that Martin Bassett was a millionaire, if the news he
had heard had not left him penniless; that he would
return to England, and visit Slowbridge, as soon as
his affairs were settled. The precarious condition of
his finances did not seem to cause Octavia much concern. She had asked no questions when he went away,
and seemed quite at ease regarding the future.

"People will always lend him money, and then he is lucky with it." she said

She bore the catechising very well. Her replies were frequently rather trying to her interlocutor, but she never seemed troubled, or ashamed of anything she had to say; and she wore, from first to last, that inscrutably innocent and indifferent little air.

She did not even show confusion when Lady Theobald, on going away, made her farewell comment:—

"You are a very fortunate girl to own such jewels," she said, glancing critically at the diamonds in her ears; "but if you take my advice, my dear, you will put them away, and save them until you are a married woman. It is not customary, on this side of the water, for young girls to wear such things—particularly on ordinary occasions. People will think you are odd."

"It is not exactly customary in America," replied Octavia, with her undisturbed smile. "There are not many girls who have such things. Perhaps they would wear them if they had them. I don't care a very great deal about them, but I mean to wear them."

Lady Theobald went away in a dudgeon.

"You will have to exercise your authority, Belinda, and make her put them away," she said to Miss Bassett. "It is absurd—besides being atrocious." "Make her!" faltered Miss Bassett.

"Yes, 'make her'—though I see you will have your hands full. I never heard such romancing stories in my life. It is just what one might expect from your

brother Martin."

When Miss Bassett returned, Octavia was standing before the window, watching the carriage drive away, and playing absently with one of her earrings as she did so.

"What an old fright she is!" was her first guileless remark.

Miss Belinda quite bridled.

"My dear," she said, with dignity, "no one in Slowbridge would think of applying such a phrase to Lady Theobald."

Octavia turned around, and looked at her.

"But don't you think she is one?" she exclaimed.

"Perhaps I oughtn't to have said it; but you know we haven't anything as bad as that, even out in Nevada—really!"

"My dear," said Miss Belinda, "different countries contain different people; and in Slowbridge we have our standards,"—her best cap trembling a little with her repressed excitement.

But Octavia did not appear overwhelmed by the existence of the standards in question. She turned to the window again.

"Well, anyway," she said, "I think it was pretty cool in her to order me to take off my diamonds, and save them until I was married. How does she know whether I mean to be married, or not? I don't know that I care about it."

## CHAPTER V.

## Lucia.

In this manner Slowbridge received the shock which shook it to its foundations, and it was a shock from which it did not recover for some time. Before tens o'clock the next morning everybody knew of the arrival of Martin Bassett's daughter.

The very boarding-school (Miss Pilcher's select seminary for young ladies, "combining the comforts of a home," as the circular said, "with all the advantages of genteel education") was on fire with it, highly-colored versions of the stories told being circulated from the "first class" downward, even taking the form of an Indian Princess, tattooed blue, and with difficulty restrained from indulging in war-whoops,—which last feature so alarmed little Miss Bigbee, aged seven, that she retired in fear and trembling, and shed tears under the bedclothes; her terror and anguish being much increased by the stirring recitals of scalping-stories by pretty Miss Phipps, of the first class—a young person who possessed a vivid imagination, and delighted in romances of a tragic turn.

"I have not the slightest doubt," said Miss Phipps, "that when she is at home she lives in a wampum."

"What is a wampum?" inquired one of her admiring audience.
"A tent." replied Miss Phipps with same '

"A tent," replied Miss Phipps, with some impatience. "I should think any goose would know that. It is a kind of tent hung with scalps and—and—moccasins, and—lariats— and things of that sort."

"I don't believe that is the right name for it,"

put in Miss Smith, who was a pert member of the third class.

"Ah!" commented Miss Phipps, "that was Miss Smith who spoke of course. We may always al

Smith who spoke, of course. We may always expect information from Miss Smith. I trust that I may be allowed to say that I think I have a brother "——
"He doesn't know much about it, if he calls a

wigwam a wampum," interposed Miss Smith, with still greater pertness. "I have a brother who knows better than that, if I am only in the third class."

For a moment Miss Phipps appeared to be medi-

tating. Pernaps she was a trifle discomfited; but she recovered herself after a brief pause, and returned to the charge.

"Well," she remarked. "rerhans it is a wigner.

"Well," she remarked, "perhaps it is a wigwam. Who cares if it is? And at any rate, whatever it is, I haven't the slightest doubt that she lives in one."

This comparatively tame version was, however, entirely discarded when the diamonds and silver-mines began to figure more largely in the reports. Certainly, pretty, overdressed, jewel-bedecked Octavia gave Slow-bridge abundant cause for excitement.

After leaving her, Lady Theobald drove home to Oldclough Hall, rather out of humor. She had been rather out of humor for some time, having never quite recovered from her anger at the daring of that cheerful builder of mills, Mr. John Burmistone. Mr. Burmistone had been one innovation, and Octavia Bassett was another. She had not been able to manage Mr. Burmistone, and she was not at all sure that she had managed Octavia Bassett.

She entered the dining-room with an ominous frown on her forehead.

At the end of the table, opposite her own seat, was a vacant chair, and her frown deepened when she saw it.

"Where is Miss Gaston?" she demanded of the servant.

Before the man had time to reply, the door opened,

and a girl came in hurriedly, with a somewhat frightened air.

"I beg pardon, grandmamma dear," she said, going to her seat quickly. "I did not know you had come home."

"We have a dinner-hour," announced her ladyship, "and I do not disregard it."

"I am very sorry," faltered the culprit.

"That is enough, Lucia," interrupted Lady Theobald; and Lucia dropped her eyes, and began to eat her soup with nervous haste. In fact, she was glad to escape so easily.

She was a very pretty creature, with brown eyes, a soft white skin, and a slight figure with a reed-like grace. A great quantity of brown hair was twisted into an ugly coil on the top of her delicate little head, and she wore an ugly muslin gown of Miss Chickie's make.

For some time the meal progressed in dead silence; but at length Lucia ventured to raised her eyes.

"I have been walking in Slowbridge, grandmanma," she said, "and I met Mr. Burmistone, who told me that Miss Bassett has a visitor—a young lady from America."

A Lady Theobald laid her knife and fork down de-

"Mr. Burmistone?" she said. "Did I understand you to say that you stopped on the roadside to converse with Mr. Burmistone?"

Lucia colored up to her delicate eyebrows and

"I was trying to reach a flower growing on the bank," she said, "and he was so kind as to stop to get it for me. I did not know he was near at first. And then he inquired how you were—and told me he had just heard about the young lady."

"Naturally!" remarked her ladyship sardonically.
"It is as I anticipated it would be. We shall find
Mr. Burmistone at our elbows upon all occasions. And
he will not allow himself to be easily driven away.
He is as determined as persons of his class usually
are."

"Oh grandmamma!" protested Lucia, with innocent fervor. "I really do not think he is—like that at all. I could not help thinking he was very gentlemanly and kind. He is so much interested in your school, and so anxious that it should prosper."

"May I ask," inquired Lady Theobald, "how long a time this generous expression of his sentiments occupied? Was this the reason of your forgetting the dinner-hour?"

"We did not "—said Lucia guiltily: "It did not take many minutes. I—I do not think that made me late."

Lady Theobald dismissed this paltry excuse with one remark,—a remark made in the deep tones referred to once before.

"I should scarcely have expected," she observed, 
that a granddaughter of mine would have spent half 
an hour conversing on the public road with the proprietor of Slowbridge Mills."

"Oh grandmamma!" exclaimed Lucia, the tears rising in her eyes: "it was not half an hour."
"I should scarcely have expected," replied her lady-ship, "that a granddaughter of mine would have granddaughter of mine would have granddaughter."

"I should scarcely have expected," replied her ladyship, "that a granddaughter of mine would have spent five minutes conversing on the public road with the proprietor of Slowbridge Mills."

To this assault there seemed to be no reply to make. Lady Theobald had her granddaughter under excellent control. Under her rigorous rule, the girlwhose mother had died at her birth-had been brought up. At nineteen she was simple, sensitive, shy. She had been permitted to have no companions, and the greatest excitements of her life had been the Slowbridge tea-parties. Of the late Sir Gilbert Theobald, the less said the better. He had spent very little of his married life at Oldclough Hall, and upon his death his widow had found herself possessed of a substantial, gloomy mansion, an exalted position in Slowbridge society, and a small marriage-settlement, upon which she might make all the efforts she chose to sustain her state. So Lucia wore her dresses a much longer time than any other Slowbridge young lady; she was obliged to mend her little gloves again and again; and her hats were retrimmed so often that even Slowbridge thought them old-fashioned. But she was too simple and sweet-natured to be much troubled, and indeed thought very little about the matter. She was only troubled when Lady Theobald scolded her, which was

by no means infrequently. Perhaps the straits to

watered, \$8.75;

1866

\$4.90; ad \$4.40 on track as bags, ba bran, ton, at

middle
1 hard,
northern,

middle,

e. east. s. rels, car gher.

\$9.50 5.75 6.15 85

17

1.00

Cheese, 11to nue fair. Prices

9

down to \$1.50 to RKET.

32± 11.00

8.00 10.00 7,75 7.25 77 16 12

1.50

45 2.00

ports of

ary 4th:

ydraulic ......61

irman...63

s' Asso-

Buffalo; ......64
......64
......66

which, at times, her ladyship was put to Lady Theobald turned upon her, slowly maintain her dignity imbittered her and majestically. somewhat.

"Lucia is neither a Theobald nor a Barcld," she had been heard to say once, and she had said it with much rigor.

A subject of much conversation in prihad been discussed in whispers since her seventeenth year, but no one had seemed to nobody for Lucia to marry, -nobody approach any solution of the difficulty. Upon the subject of her plans for her granddaughter, Lady Theobald had preserved stern silence. Once, and once trayed into the expression of a sentiment connected with the matter.

"If Miss Lucia marries"—a matron of one, which she certainly did not. reckless proclivities had remarked.

"If Miss Gaston marries," she repeated. "Does it seem likely that Miss Gaston will not marry?"

This settled the matter finally. Lucia was to be married when Lady Theobald wate circles had been Lucia's future. It thought fit. So far, however, she had not thought fit: indeed, there had been whom her grandmother would have allowed her to marry, at least. There were very few young men in Slowbridge; and the very few were scarcely eligible only, she had allowed herself to be be- according to Lady Theobald's standard, and-if such a thing should be mentioned -to Lucia's, if she had known she had

(To be continued.)



The following paper on "Unseen Forces" was sent in by Mr. Lawrence, one of the "Advocate" read-Feeling sure that you will be pleased with it, I have great pleasure in standing aside for once, asking you to give Mr. Lawrence's paper the attention it deserves. HOPE.

## The Unseen Forces Around Us.

When we plant or sow the seed in the spring, we expect that it will sprout and grow and develop, but do we understand the process of thus growing or developing? Can we' tell how the plant is able to draw the nourishment it requires from the soil through its roots, or from the atmosphere through its leaves? I am afraid we understand these processes but very imperfectly; yet there is a very great force at work all summer long in the growth and maturity of the various plants on the farm, and it is so much of an everyday occurrence for us to look over the growing crops that we often forget to think with gratitude of the all-wise and beneficent Creator who created all this beautiful world for man's use and benefit, and who sends the rain and sunshine to make the crops grow for the sustenance of man and beast, and the wise Creator ordered that every grain should reproduce its own kind.

The wind is another great force which we cannot see. We are able often to see the effects of its workings, and to feel its power, but we cannot see the power itself. How truly the Great Teacher spoke when He said, "The wind bloweth where it listeth, and thou hearest the sound thereof, but canst not tell whence it cometh or whither it goeth?" The wind has been made more or less serviceable to man for a long period, but it is only in later years that this great force has been practically hitched up, as it were, for the benefit of the farmer. The old style of windmill was hard to manage, but the modern motors are almost perfectly under the control of man, and on very many farms the wind-motor is almost a necessity for pumping purposes and also for power required for other work.

Electricity is another great unseen force, created by the founder of the Universe. Some years ago I was conversing with a friend about some of Solomon's sayings, when I happened to remark that I was afraid that the wise man had made a slight mistake when he wrote that there was nothing new under the sun, for there were no electric telegraph, telephone or cars in his day, and we have all these now. "Ah, but," my friend replied, "there has been no new force or principle or power in the world; all were made by God when He created the world; the electrical current was just as powerful in Solomon's time as it is to-day, but man has only lately learned how thereof, but canst not tell whence it to hitch up this great masem force cometh, and whither it goeth; so is for his use and benefit." Man is everyone that is born of the Spirit."

ever learning and improving, but God had just as much wisdom when He created the world as He has to-day. Of course, I do not understand much about electricity, but I was very much interested when, on one occasion, I happened to be on a business trip to a distant town, which was very hilly. I was returning on the street car from an outing in the park; the car was so crowded that not another person could get even standing room, but we rode up and down these hills just the same as if the road had been level; the electrical current was sufficiently powerful to, as it were, overcome all drawbacks and hindrances, and we were carried into town as easily and smoothly as if the road had been perfectly level. It would have been an impossibility to have hitched enough horses to that car to have drawn it up these hills at an even rate of speed.

But great and mysterious as these unseen forces of which we have been speaking undoubtedly are, there is a still greater and more mysterious force in operation all around us. When I was living in sin I was, as it were, impelled and driven on to evil by an unseen force which I could not resist, however hard I might try, but when I was led to realize how utterly helpless and impotent I really was, then I cried unto God in my distress, and He graciously heard my cry and showed me how to get connection with the electrical current of His grace, and after turning right about from following evil, I am carried along in His service by the mighty, irresistible power of His Holy Spirit, which enables me to overcome all obstacles. I have heard people say that they would never accept religion until they could understand it, yet these people will admit that they do not understand how the electrical current lights the city and moves the cars along the streets, yet these same parties make use of the light and power given out by electricity, although they understand little or nothing of its workings. Now, is not this refusal on their part to accept God's power to guide and lead them, because they do not understand it, a very foolish and suicidal act? All your load will not hinder or weaken God's power in the very least. Giving of power does not impoverish Him, nor does withholding make Him rich. So then, in His name, and as His ambassador, I ask of you to give up being impelled by the force of evil, but turn to God, seek His free pardoning mercy, and bring your lives into connection with the great unseen force of His Holy Spirit, which will enable you to overcome a peace and security obtainable in no

other way. "The wind bloweth where it listeth, and thou hearest the sound thereof, but canst not tell whence it

HEALTH IN THE HOME. 6 By a Trained Nurse

# Colds and Their Treatment.

This is the season of coughs and colds, many of which, however, may be prevented. Those who keep fresh air in their houses, heat them evenly and not too much, who eat wholesome food, and are properly clothed, are not very much at the mercy of the weather. After washing with warm water and soap for cleanliness, a dip in a cold bath, or a rapid cold sponge is an excellent preparation for a cold day. There are some people for whom this is not advisable, but it is of great benefit to the majority. Frequent bathing and rubbing of the akin is a help to good circulation, and, consequently, a protection against cold. A hot bath should be followed by a cold sponge, unless taken to induce perspiration, or ordered by the doctor for some kept as warm as 70° F., heavy flannels should not be worn indoors. Very little more than summer clothing is required in such a temperature.

## WRAP UP WARMLY WHEN GOING OUT.

When people are tired, or hungry, or nervous, they are apt to feel cold, and an extra wrap is then useful and comfortable, but half an hour after the meal, and a short rest, the chilliness and nervousness usually disappear, the wrap becomes unnecessary, and should be put off. This cannot be done with heavy underclothing, and is one reason for not wearing it. Indigestion and want of exercise have the same effect as hunger and fatigue as regards feeling cold, hence the importance of wholesome food and an active life. Farm life is necessarily active, but not always in the right way. The daily walk out of doors, in average weather, should not be neglected because of things to be done in the house. It is always more comfortable, and, in the long run, better policy to take time for the things that are necessary to good health. A healthy life, which consists chiefly in having the right amount each of pure air, pure water, good food, and sufficient clothing, together with plenty of work, and some interests apart from personal matters, is, in itself, a protection against all physical and many mental evils.

HAVING A COLD. upon a general clogging of pores of the skin and mucous mem- person in bed, on a fluid diet. brane. Free perspiration, therefore, affords the quickest relief. A hard cold in the head may be broken up by steaming over a pitcher of boiling water, to is enough for a grown person. Many which a little spirits of camphor may be people who cannot take plain milk can the mustard with cold water, and add and then it will do no harm. the hot afterwards. Undress, then sit If there is a cough, with expectoration, wrapped in blankets, with the feet in the cr a cold with a profuse discharge from tub, which should also be covered by the nose, clean rags, not handkerchiefs, the blankets, and keep them there for should be used, and burned. Any rags fifteen or twenty minutes, with the water that are clean will do, and should be as hot as possible, and well above the saved for this purpose. When confined ankles. A cloth wrung out in very cold to bed, the sick person should be supplied water should be bound around the head with clean rags about four inches square. help matters to drink cold water at the one of these should be used, then placed, same time. This will probably cause carefully folded, in a covered basin-not perspiration. At the end of twenty a tin one, for that causes a nauseating minutes let the foot-bath be taken away, odor. The rags thus collected should be before removing the blankets; quickly basin itself cleaned thoroughly morning put on a fresh night garment, and get and night. Any member of a family into bed. This is a good time for a having a cough or cold should be careful glass of hot lemonade. One garment is not to leave about a glass or cup that every temptation and will give you they should be kept for use at night by someone else before it has been only. patient feels too ill to sit up, a foot-bath particularly gratifying to look back upon can be given in bed, which proceeding when it happens that what was supposed will be described later.

may be relieved by a cold compress at

night. .This consists in wringing out one end of a towel in cold water, wrapping it around the neck, and then winding the rest of the towel over the wet part until it is entirely covered. Pin it securely, and leave it on until morning. It is also useful to gargle with quite warm salt and water, or, better still, baking soda and water-about a teaspoonful to half a tumbler.

For a cold on the chest, besides the foot-bath, put on a mustard paste. If there is pain in the chest, put the paste where the pain is. More than one paste can be used when there is a pain on both sides of the chest. Mix one spoonful of mustard and four of flour together with the white of an egg, and a little cold water if necessary. Plain water will do, but the white of egg prevents blisteringspecial reason, in which case he will give no small consideration. Lard will directions about it. If the house is answer the same purpose. Spread the paste on a piece of old muslin, or an old handkerchief, larger than the paste is to be, and fold the excess of material over the back of it. When finished it should not be less than five inches square. Keep this on for about ten minutes, or until the skin is very red. It must not be allowed to blister. When the paste is taken off, dust the part with talcum powder, or ground starch, or burned flour, and cover with a piece of clean linen. Such cathartics as castor oil, Rochelle or Epsom salts and fluid extract of Cascara should always be in the house, and a dose given on general principles in case of a severe cold. A moderate dose of cator oil in the beginning of a cold is excellent. Salts should always be taken half an hour before food in the morning. It is better to take a moderate dose for two or three mornings than too large a dose at one time. Apart from this, drugs should not be used, unless prescribed by the physician. Nor should medicine prescribed for one member of the family be given to another without his permission. What is the best thing for one person may be quite the opposite for someone else, and what is good at one time may be the wrong thing for the same person at another time. The responsibility of giving drugs should not be assumed by any unauthorized person. If the measures herein mentioned do not give decided relief within twenty-four hours, the physician's presence is necessary. Send This condition is made manifest to the for him. If he is very far off, do not individual by the discomfort consequent wait longer than sixteen or eighteen the hours, and, until he comes, keep the sick

# MILK IS THE BEST THING.

A tumbler nearly full every two hours added. Cover both head and pitcher take it diluted with water, either hot or with a towel, not to exclude air, but to cold. It is always safe for a sick person make a sort of tent, and steam for five to drink as much cold water as he wishes, or ten minutes. When going to bed, unless his stomach rejects it. If the soak the feet in mustard and water. Mix water is not pure it should be boiled,

while taking the foot-bath, and it will Each time it is necessary to expectorate, and rub dry all over with a clean towel burned as frequently as possible, and the enough to sleep in. If two are worn, he has used where it may be used again The room, of course, should be washed. Care in these matters prowarm and well ventilated. If the tects the rest of the family, and will be to be only a cold turns out to be A SORE THROAT OR HOARSENESS pneumonia or a tubercular infection. A. G. OWEN.

1866

out one

pping it

ing the

rt until

securely,

It is

e warm

baking

onful to

ides the

ste. If

he paste

ne paste

on both

onful of

her with

tle cold

will do,

stering-

rd will

read the

r an old

ste is to

rial over

t should

re. Keep

or until

not be

paste is

talcum

burned

of clean

stor oil,

fluid ex-

be in the

eral prin-

old. A

the be-

hour be-

is better

or three

e at one

s should

by the

ine pre-

family be

ermission.

ne person

time may

ne person

ibility of

sumed by

the meas-

give de-

nours, the

I, do not

eighteen

the sick

wo hours

milk can

er hot or

ick person

he wishes,

be boiled,

ctoration,

arge from

dkerchiefs.

Any rags

should be

n confined

e supplied

nes square.

pectorate,

nen placed,

basin-not

nauseating

should be

le, and the

y morning

f a family

be careful

r cup that

used again

has been

tters pro-

and will be

back upon

s supposed out to be

fection. OWEN.

If the

Many

ING.

someone

Salts

# The Children's Corner.

# Borrowing and Sorrowing.

By Elizabeth R. Burns.

He thought that his own was by far too

To hold even half, to say nothing of all He wanted at Christmas; and so it seems. Ted

Just hung at the foot of his little bed A bicycle stocking, borrowed one day From a young man living three doors away.

To hang it himself the young man had a notion, But Christmas eve found him far out on

More than astonished was old Santa Claus

the ocean.

To find how enormous the stocking was. "Why, how he has grown in a single

He was almost a baby last time I was here,

And now he's a man! Well, well! Every toy Intended for him must go to some boy." you sept me.

A bicycling man that went round in a ring: A monkey that climbed up and down on

a string; The funniest set of Brownies; a top; And books full of pictures. But I

must stop, I haven't the time to mention each one-A boy with all those could have lots of

But Santa replaced them all in his And carried them off again on his back.

"It happens," he said, "that the other day

A young man who lives just three doors away Was suddenly summoned across the sea,

And I have his presents all here with me-A gold-headed cane, some gloves, and a

bcx Of collars and cuffs, these hand-knitted socks,

And slippers embroidered in gold and blue,

A fine mustache cup, a silk tie or two, Some books about science, a shaving mug,

A good fountain pen, and a railway rug. I'll fill Teddie's stocking, how pleased he'll be !

It's better than taking them back with me.

"Hurrah!" shouted Teddie, "the stocking's full 1 "

But oh, what a face for a boy to pull, And on Christmas morning too! And oh, fie! It's surely a shame for a boy to cry.

"It's awfully mean to bring things like would like to write for your paper.

Old Santa Claus did it, I know, to There isn't one thing that will suit a

There's nothing that looks a bit like a toy;

And here's an old letter stuck in the tce: 'I never have seen such a boy to grow.

And if you keep on at this rate, I fear, I'll find you a great-grandfather next Your stocking won't need to be quite so

I'll bring you some gold-bowed specs and

To the young man's home, just three doors away,

Ted carried the stocking that very day, And made up his mind that next Christmas eve

He'd hang his own stocking up, I believe :

For he doesn't like things that are miles too big,

Nor does he want gold-bowed specs and a wig!

## The Doll's Bath.

Gretchen is a very lucky little girl, for three new dolls were hung on her little Christmas tree a few weeks Hans, like the good brother that he is, finds time to help her to wash the very nicest one of the three, while the others stand in the watering-can until their turn comes.

Unfortunately, the lady Alexandra's clothes are not made to come off, and so she takes her bath without undressing. I am afraid she will look rather draggled and forlorn, like a hen in a thunderstorm, when she comes out. But Gretchen will love her as much as ever, and, after . all, love is worth more than admiration-don't you think so?

Here are two letters received from prizewinners in our Christmas competition:

Broadview Farm, Pendennis, Man., The Wm. Weld Co.: Dec. 10th, 1903. I very thankfully received the prize

I had not dared to hope to receive the prize, and even if I had, would not have expected to get anything so beautiful. I have not read any of Miss Yonge's works, but have heard that she is a good writer, so I hope to be still further pleased as well as benefited by the perusal of the book.

form a Children's Club. I shall be very glad to consider this question, now that the holiday season is over and we have room to discuss the subject. What kind of a club would you like to start? Can anybody make a suggestion as to rules and regulations? Any letters will reach me if addressed to the "Advocate" office, and I shall be glad of helpful suggestions from children large and COUSIN DOROTHY.

The poem at head of this department was sent in for our recent competition by Dena McLeod, aged 15.

Where there are school children in the family, good, rich soup should often be made for supper.

# Kind Appreciation.

Mrs. J. R. S., of Brule, N. S., writes, acknowledging prize received in guessing competition. She adds: "We all prize the good 'Advocate,' and wish it great I consider it good mission work to introduce it into homes, as the Sunday reading alone is so good and helpful. The Christmas number is grand, we are enjoying it so much."

We are very sorry that we had to leave out "The Children's Corner" in our last issue. It contained the Christmas story, sent in by Janet Waterman, "Li'le Pete's last Xmas." Our Home Dept. was shortened greatly to make room for advertisements which came in at the last moment.-[Editor Home Dept.



# House Plants in Winter.

To begin with, it may be stated, as a general rule, that unless conditions are especially favorable, it is better to keep only a few plants during the winter. A few well-cared for, healthy and vigorous, are likely to give a great deal more pleasure, and be much less troublesome, than a host of weak, straggling ones.

Plants should never be crowded in a window. Practically, all of them need as much light—and most of them as much sunshine—as they can possibly get, and how can they be supplied with these if pressed upon on all sides by surrounding foliage? A very good plan is to have windowshelves on strong brackets, one at the sill, one about two feet further up, and one above that again. Of course, the blind has to be run up to the top of the window, but who minds that when its place is taken by a living blind of green, interspersed with dainty blossoms? At any rate, light and sunshine are good for all the occupants of the house, as well as for the plants. It is impossible to have too much of either. . . . When shelves

such as these are be placed on the upper shelf, where, of course, as heat rises, the temperature will suit them better, but it must be remembered that since evaporation is also greater up there, these plants will require water much more frequently than those on the lower shelves.

Having disposed of our plants, then, the great problem will be to keep them as nearly as possible at but I did not copy a line of it. I like the same temperature. Cold air to write very much, and I am going to should not blow in upon them from about loose sashes. Where there are no storm-windows, and it is not necessary to open the window for purposes of ventilation, it is a good plan to paste narrow strips of paper or felt all over the cracks. paper may be painted, with some tube paint and linseed oil, the exact shade of the woodwork, and will scarcely be noticeable. At night the blind should be drawn down next to the glass, and several thicknesses of newspapers added. When the cold The world is so full of a number of is intense, and the house is not of the More than two months ago Grace warmest, plants should be removed 1 am sure we should all be as happy as

sible, and covered with an inverted box which has been well papered inside with tar paper, or several plies of newspaper. . . If plants should happen to get frozen, they should be removed into a cool, darkened room, or frost-proof cellar, and kept there for a few days. Above all things they should not be permitted to thaw out quickly. Sprinkling the leaves with cold water is often beneficial at such a time.

During the winter it will be necessary to apply fertilizers occasionally. Liquid manure is good for nearly all plants, and, if not too strong, is not likely to give much trouble on account of its odor. But if it be objected to, some good commercial fertilizer, which may be obtained from any seedsman, should be used. Begonias, it should be remembered, have an especial dislike to fertilizers of any description.

In watering, the nature of the plant should be studied. It stands to reason that bog-plants, such as the calla, umbrella plant, and some species of ferns, require a great deal of water, while those species whose nature it is to grow in rather arid districts—the cacti, for example—need comparatively little. As a general rule, all of the common varieties. with the exception of those mentioned above, and a few of their allies, should be watered only when the soil becomes dry. Then they should receive a thorough soaking with warm water. Many people find that very good results come from immersing plants in warm suds on wash day, the soapy water helping to keep the plants free from insect pests, as well as being a source of food for the roots. It should not be forgotten that the leaves should never be allowed to become covered with dust. Dust clogs the stomata, or little mouths, through which the plant breathes and obtains a part of its sustenance; hence, the leaves should be washed very often; or, still better, sprayed with a rubber sprinkler. Once a day is not too often for this operation.

It is, perhaps, scarcely necessary to mention that sun-loving plants should be given the sunniest situations. Of the common varieties, geraniums, roses, cacti, abutilon and heliotrope should be given the south windows; while asparagus, begonias, ferns, pelargoniums, velvet plants and leopard plants may be relegated to the north and east.

The care of house-plants does not take up so very much time, but never-ceasing vigilance is the price of the highest success with them.

FLORA FERNLEAF. "Farmer's Advocate" office, London, Ont.

Bennett suggested that we might to a table as near the stove as pos-



The Doll's Bath.

I am fond of writing stories, and used, the tenderest plants may

Sincerely yours, BERNICE VIDA COUSINS.

Dear Cousin Dorothy,-Thank you very much for the nice book received last night. I am much pleased with it. You say, in the "Farmer's Advocate." that no story is original except the one sent in by Bernice Cousins. This is a mistake. I read a great deal, and may have got some of my ideas in that way, try in some other competitions. I re-Yours sincerely,

AMY C. PURDY.

I am glad you were pleased with your prizes-which were sent from the "Advocate" office, not from me -and I feel sure the other prizewinners were equally pleased. I am sorry your story was not acknowledged as original, Amy, but you did not mention the fact, and I naturally supposed that it was copied, as original stories were not asked for.



Dear Friends,-A popular aphorism is that "Great minds run alike." It would certainly seem so, judging from the matter of the first three letters which tumbled out from my "accumulation drawer" this morning. All three dealt with the arranging of the ideal home, a most pertinent and practical subject, especially at this season of the year, when the mind is, to a great extent, shut off from the fields, the woods, and the gardens, and confined to the house itself.

" A Farmer's Wife" (by the way, this pseudonym has been chosen by two of our correspondents) says:

" My Ideal of a farm home is a small, convenient kitchen, a large, airy diningroom with good hardwood floors of dark and light boards alternately at an angle of forty degrees. Have your wooden chairs here, and a good comfortable couch, also sideboard and extension table, which is so convenient at the threshing time; and a good-sized parlor, with a good Brussels or Wilton carpet and a suite of upholstered furniture, with not too much bric-a-brac, some nice cushions and pictures, and a musical instrument-a piano, if possible-for, as you know, some of our farmers' daughters and sons too make very good musicians. And who can enjoy a good comfortable room and music better than a farmer, who comes in tired and hot from his work in the fields and dons slippers and dressing-gown? I know of several such homes, and I find the boys with a home with a parlor their mother is not afraid to let them use do not go to the village tavern to spend their evenings and Sundays.

"In my opinion, the more you beautify the home, the more economy it is, for our boys stay with us, and I say 'hats off' to the boy who knows and appreciates a home like this."

# A Handy Kitchen.

Miss Mamie Merriam sends a plan of a kitchen which is very convenient, and Across some respects and of this kitchen stretches a large sink, above which are, side by side, the spout of the cistern pump and the tap of a hard-water pipe. The hard water is conducted to the house by pipes leading from the well to a reservoir stationed at the corner of the kitchen; the water being raised from the well by means of windmill. Beneath the sink are the usual cupboards for pots, pans, etc. Across the opposite end of the room and down a portion of one side of it is built a long seat, closed in along the front by a sort of wainscoting, thus forming a long box. This box is divided into many compartments, each with a lid which may be opened upwards when required, and, at other times, closed down to form the seat portion of the contrivance. These "boxes" have become invaluable to the occupants of this home. Into them may be stowed boots, rubbers, carpet-balls-all of the various "things" which assemble so mysteriously in a farmhouse kitcken, and cannot, at all times, be conveniently relegated to the garret.

Last of all, we have an essay composed by Miss Gladys Pentland, the thirteen car-old daughter of Mr. J. say, which is written in a somewhat fancii decide, so though by a page H. Pentland, of Nile, Ont. This esof matther wats, is so very creditable to Mr a Clader that, although much pressed for slaves are cannot resist the temptation.

# "An Ideal Farm."

"Some years ago, I grew tired of my city home and hurried life, and so I determined to live in the country. One glorious morning, I started out to hunt for my farm, and, O joy! I had hardly gone a mile, when one of the most beautiful farms I had ever seen was presented to my delighted gaze. Now, had a very exact picture of what and where my farm ought to be, and, before I say more, I will tell you what that picture was. The farm was to be far enough from the city for its worries and annoyances never to touch me again, and near enough to enjoy its privileges and conveniences. This farm just suited me, so I determined to buy it.

As I said, it is about a mile from a city in the beautiful Province of Ontario, and, besides this, is on the main road; so my home will be conveniently near the city to there dispose of my farm produce, and yet away from the temptations and

bustle and glare. Chestnut Grove is a one-hundred-acre farm, and the soil is a sandy loam, well suited for grain or fruit growing. It has eighty rods frontage, and has level, well-drained land, and near the woods there is a hilly expanse, which makes excellent pasture. The fields are all well fenced and cultivated. They are about ten acres each, except the garden, which has an area of two acres, in which are planted the strawberries which supplied us all summer with their delicious fruit, and also the potatoes, onions, carrots, cucumbers and tomatoes. The lane runs right back to the 'bush field,' as we call it, which is the pasture ground of my farm.

The buildings, generally speaking, are large, commodious and compact. the eye of an artist, perhaps, rambling buildings and tumble-down fences all moss grown are the most picturesque, but I think neatness is the greatest attribute to beauty.

The barn has a cement foundation, and don, Ont. has no sheds or outbuildings. It can accommodate comfortably twenty-five head of cattle, eight horses and thirteen hogs. The horse stable is in front, and my maned pets are always the first to greet my entrance, and are never disappointed in their expectations of what my pockets contain. And now my house, a large, roomy, brick building crowns a little eminence, and I ask you to come in with me and see me beside "my ain fireside." the kitchen, large and the back is well lighted by three large windows, and warmed by a range for cooking. Next, the dining-room, and the folding-doors open into the parlor. Now, shall we go upstairs? The bedrooms are all here, and are made comfortably warm by the furnace, and conveniently supplied, like the kitchen, with hot and cold water taps. In front, at the foot of the house, are the flowerbeds, which so lately were a blaze of color and beauty, and made more gay by the contrast with the evergreens. From the house to the road are trees-evergreens, winter shrubs and chestnuts-which give my home its name, "Chestnut Grove." From the massive gate to the house there is a carriage drive, and beside it is the foot-path, framed in by a closeclipped cedar hedge.

The summer was a good one for us farmers, and the barn was filled to overflowing with the golden, ripened grain. Yes, farming is a profitable employment and a healthful one, and it will always be mine. And now, as I stand in the porch, the fresh cool air entices me into it. I go out under the evergreens, and see the falling leaves of the chestnuts

and maples, and a squirrel scampers away through the boughs. This is my home, and I am happy in it; but I awake with a shiver to the fact that the air is cold, and I leave the glorious outside for the comforts of my fire." GLADYS B. PENTLAND.

Next week we shall begin to publish the prize essays written upon the subject, "How to enjoy the winter." The "Honor List" (outside of the prizewinners), which I promised to give to-day, is as follows: Class I., Mrs. Evans O'Connor, "Wabasso;" Mrs. B. H. W.; II., Miss A. L. Mc-Diarmid, Annie Bailey, Mayme Renttel, Ada Sleep; III., F. G. Osborne, Verne Rowell, Dena McLeod.

Now for our next competition. The subject for this one will be, "The most amusing thing I ever heard of." Three prizes will be given as before, all equal. Class I., married people; II., unmarried people over 18; III., boys and girls under 18. The only restrictions are as follows: (1) Nothing vulgar will be considered at all. We want fun, but not vulgarity. However, we feel that no member of our circle could be capable of writing anything vulgar, so we have no fear upon that score. (2) Incidents or conversations written about must be original. They must never have been in print before. (3) They must be written in prose. (4) All letters must be received at this office on or before the last day of February.

Just once more, I want to ask

what has become of our Quebec, British Columbia and Maritime Province people? I get letters from Manitoba, the Territories, Ontario and New Ontario-letters in plentybut "sorra a one, at all, at all," came in from the others, hence I have been forced to the conclusion that all the Quebec, B. C. and Maritime Province folk are—yes—just horribly-lazy! There, it's out at last-lazy-just lazy! But what a heap of meaning lies in that little word of four letters! Come, you people, redeem your good name, and win some of our prizes. Address all letters or essays to-

DAME DURDEN. "Farmer's Advocate" office, Lon-

Yawning, when reasonably and methodically practised, is said by Herr Nogeli to be an excellent thing for those who wish to strengthen their constitutions. He has made a study of it, and positively asserts that a series of heavy yawns is of more benefit than a tottle of the best tonic. To practise deep breathing is generally acknowledged to be an excellent thing for the lungs, forms splendid morning and evening exercise, and the most perfect chamber gymnastics for people generally, and especially for all those whose breathing is embarrassed. In future, therefore, if our friends yawn when we are discoursing to them, we may console ourselves with the thought that it is not because we are boring them, but that they are enthusiasts, and are practising their "chamber gymnastics" in the wrong place.

Inhaler, together with two bottles of medicine, for only 12 cents (stamps), on or before Jan. 15. We only 12 cents (stamps), on o

## A Correction.

In some unaccountable way a mistake occurred in the printing of Mrs. J. R.'s first recipe in the Christmas number Ingle Nooks spoonfuls of salt " should be "2 tablespoonfuls of flour; salt and pepper to taste."

DAME DURDEN

How many tired but silent farms ers' wives would not only be happier, but live longer, if they had a cozy, inexpensive resting room.

TOBACCO AND LIQUOR HABITS. Dr. McTaggart's Tobacco Remedy removes all desire for the weed in a few days. A vegetable medicine, and only requires tooching the tongue with it occasionally. Price \$2.

Truly marvellous are the results from taking this remedy for the liquor habit. Is a safe and inexpensive home treatment; no hypodermic injections, no publicity, no loss of time from business, and a certainty of cure.

Address or consult Dr. McTaggart, 75 Yonge St., Toronto.

# \$4.50 Ladies' Suits

We manufacture ladies Our specialty is a \$12 riese suit. We sold over 1,000 of these suits this fall at \$12 each 250 of these suits now on hand. We do not care to carry them over till next fall. carry them over till next fall.
We will sell them \$4.50

a suit; were \$12. The cloth
is wool frieze, black, navy,
myrtle green, seal brown,
dark red, dark gray. Skirtis
7-gored, bound in velvet and
stitched in silk. The coat is
tight fitting back, belted at
waist, with long skirt on
coat—the la'est style. The
coat is lined in good sateen.
The suits all this win-The suits all this winare from a 14-year girl to a stout woman 44 bust. Any suit can be returned if not satisfactory, and

money refunded. Send bust and waist measure—length from neck band to belt in back—sleeve length—under seam—also length front, side and back of skirt and around hip-perfect satisfaction guaranteed. Mention this paper, SOUTHCOTT SUIT CO., London, Ganada:

## Allafor Cents.



In order to in troduce Dr. Jenner's Ger-micide Inhaler and prove that it will radically n d Catarrha Deafness, we will mail, postpaid, to address any address. Dr. Jenner's

B

Having sold my farm, I will sell by auction at my farm, five miles west of Norwood, on the C. P. R., January 27th, 1904, my entire herd of registered

# SCOTCH AND SCOTCH-TOPPED SHORTHORN Registered Yorkshire Swine, Horses and Farm Implements.

A choicely bred Stamford bull, STAMFORD BOY =35721=, 3 years old, heads the herd. Females of favorite families and of extra milking qualities. Such bulls as Joy of Morning (imp.), Lord Derby (imp.), Crimson Prince. Matchless Duke and other good ones appear on the pedigrees of some of the individuals. Sale commences promptly at 1 o'clock. The noon train, C. P. R., will stop at the farm about 12 o'clock, from the west, and stop, returning, about 5 in the evening. Visitors from the east will be met at Norwood by giving notice. Catalogues on application. Terms—Ten months' credit by furni-hing approved paper, with interest at 5% per annum. Auctioneers: James Gardiner, Peterboro', George Jackson, Port Perry.

It is the fence that has stood the test of time-stands the heaviest strain-never sags—the standard the world over. Order through our local agent or direct from us.

Walkerville, Ont. Montreal, Que. St. John, N.B. Winnipeg, Man:

oi cu

ho Re

the

THE PAGE WIRE FENCE CO. LIMITED In answering any advertisement on this page, kindly mention the FARMER'S ADVOCATE. 1866

a mis-f Mrs.

istmas table-

be '92

t and

DEN

farin-

appier,

a cozy,

ABITS.

res all de-ble medi-ue with it

aking this

inexpen-ections, no ess, and a

Yonge St.

uits

m neck band

this paper.

order to in-

uce Dr. er's Ger-de Inhaier

radically Catarra

Catarrha postpaid, to address,

B

medicine, for

Jan. 15. We

above cut)
or, etc., into
and bronchial
og the disease.
rrh in a few

terms address orporation.

erd. Females g (imp.), Lord

pedigrees of ain, C. P. R.,

in the even-es on applica-

% per annum.

peg, Man:

Can.

A

Ganada:

## Fashion Notes.

A revolution of dress seems making ready to some upon us in the near future. The fashions of 1880 are coming-into vogue as fast as they can, and, instead of the tight, plain skirt and bishop sleeve, we will soon be familiarized with the full skirt, bell sleeve and linen under-sleeve. Already the skirts are showing the coming fullness. As yet, however, thay are tucked or shirred for several inches at the top to give a tight-fitting effect about the hips. One skirt shown has a plain panel in front, widening toward the bottom. The rest of the skirt is tucked at the top, the tucks being let out to form the fashionable fullness below, and the back is finished with an inverted pleat. Many skirts of light-weight material are shown trimmed with ruffles at the bottom. It is doubtful, however, if the plain sevengored skirt, whose general utility has recommended it so highly for the past few seasons, will be readily given up by those who care for comfort and convenience. Skirts are still made rather long, but the train is fast disappearing. . . . .

The favorite shirt-waists are made very simply. Many of them are tucked or pleated in front of the shoulders to give the flat effect across the chest which still is the mode, the pleats being let out to form the blouse effect below. Shirt-waists are trimmed simply with embroidery, or with strappings and buttons. Gold buttons are again in evidence. Indeed, this is a season of buttons, which are much used in trimming all costumes of the severer type. A new material which is very suitable for shirt-waists is called "vesting." As this launders beautifully, and is at the same time quite thick enough for winter wear, its popularity is ensured.

.... With other old fashions, the high girdle is coming in. It should be made of some soft material, and arranged in soft folds, but should be fitted carefully to the figure and boned in place. As yet, the high girdle is used almost exclusively with fancy gowns, not with shirt-waists.

Pastel tints are not much shown for. mid-winter wear. At the present time there seems to be a decided preference for decided colors; and blue, green, brown and even crimson are worn. She who wishes to dress economically, however, will cling to the darker shades of which one never tires-navy blue, gray and

. . . .

Never were collars prettier than at the present time. Indeed many simple shirt-waists need no other trimming to make them suitable even for evening They may be made of lace and ribbon, or ribbon and small steel beads, or of lace applique arranged on the chiffon foundations, which may be bought ready to trim. Or they may be made of silk or velvet, fitted to the neck, fixed in place with featherbone, and trimmed with a long tab or tabs, of silk, edged with very narrow lace, in the These collars should be made with scrupulous neatness, and the fastening at the back should be "just right."

Perhaps the most sensible and popular dress that has appeared for many long years is the shirt-waist suit, which is becoming more popular every day. It consists of a shirt-waist trimmed with braid, or strapping and buttons, and a skirt of the same material, made to fit perfectly, and trimmed with braid or strapping to match the waist. Stitching may be used instead, on both, if preferred. A pretty collar and a nice girdle are all that are needed to make this suit as attractive as need be. With it, a warm winter coat may be worn in cold weather, and on mild days a short, bloused Eton, with a peplum, or a Norfolk jacket, both of which will be worn this coming spring. AUNT LIN.

Cancer Cured by Anointing with Oil.

A combination of soothing and balmy oils has been discovered which readily cures all forms of cancer and tumor. It is safe and sure, and may be used at home without pain or disfigurement. Readers should write for free books to the originators, whose home office address is Dr. D. M. Bye Co., Drawer 505, Indianapolis, Ind.

For Singers and Speakers.

The New Remedy for Catarrh is Very Valuable.

A Grand Rapids gentleman who represents a prominent manufacturing concern and travels through central and southern Michigan, relates the following regarding the new catarrh cure. He says:

"After suffering from catarrh of the head, throat and stomach for several years, I heard of Stuart's Catarrh Tablets quite accidentally, and, like everything else, I immediately bought a package, and was decidedly surprised at the immediate relief it afforded me, and still more to find a complete cure after several weeks' use.



"I have a little son who sings in a boys' choir in one of our prominent churches, and he is greatly troubled with hoarseness and throat weakness, and on my return home from a trip, I gave him a few of the tablets one Sunday morning when he had complained of hoarseness. He was delighted with their effect, removing all huskiness in a few minutes and making the voice clear and

" As the tablets are very pleasant to the taste, I had no difficulty in persuading him to use them regularly.

"Our family physician told us they were an antiseptic preparation of undoubted merit, and that he himself had no hesitation in using and recommending Stuart's Catarrh Tablets for any form of catarrh.

"I have since met many public speakers and professional singers who use them constantly. A prominent Detroit lawyer told me that Stuart's Catarrh Tablets kept his throat in fine during the most trying weather, and that he had long since discarded the use of cheap lozenges and troches on the advice of his physician that they contained so much tolu, potash and opium as to render their use a danger to health."

Stuart's Catarrh Tablets are large, pleasant-tasting lozenges, composed of catarrhal antiseptics, like Red Gum, Blood Root, etc., and sold by druggists everywhere at 50 cents for full treat-

They act upon the blood and :nucous membrane, and their composition and remarkable success has won the approval of physicians, as well as thousands of sufferers from nasal catarrh, throat troubles and catarrh of stomach.

A little book on treatment of catarrh mailed free by addressing F. A. Stuart Co., Marshall, Mich.

# **Unsound Complexions**



We make them clear and healthy, cure them of pim-ples, blotches, black heads, ples, blotches, blackheads, discolorations, and all other blemishes. It's what we've been doing for twelve years. Write for particulars, enclosing 10c, for books and sample of cream. SUPERFLUOUS HAIR, moles, warts, birthmarks, etc., eradicated forever by elec-

trolysis. Satisfaction guaranteed. Scalp diseases cured.

GRAHAM DERMATOLOGICAL INSTITUTE, Dept. F., 502 Church St., Toronto. Established 1892.

# "A Boeckh Broom for a Clean Sweep."

All brooms look alike to the inexperienced, but the woman who has bought many brooms

# Boeckh's

BAMBOO-HANDLED

# **Brooms**



Save carpets, save labor, save time and save money. Long experience has taught her to insist upon being supplied with Boeckh's Brooms; absolutely the best brooms made.

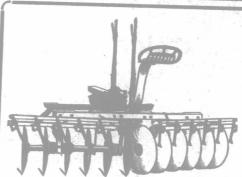
SOLD BY ALL RELIABLE GROCERS. NONE CENUINE WITHOUT THE NAME BOECKH" ON HANDLE.

# Joseph Rodgers & Sons

SHEFFIELD, ENGLAND.

Please see that this EXACT MARK is on each James Hutton & Co., Montreal, SOLE AGENTS





FROST & WOOD

Durable Implement.

Made of steel and malleable iron, hard to break and harder to wear out, ensuring constant satisfaction to the purchaser. Made in

# 8 STYLES,

cutting 6 ft., 7 ft. and 8 ft. wide. Equipped for 2, 3 and 4 horses. Give

your order now if you would

make sure of getting one. First come, first served. Our Catalogue "F" tells all about it. Cut out this ad. and send it to our Head Office and receive in return the handsomest calendar of the season.

Prost & Hood Company Winnipeg, Man.; London

Que.:

HEAD OFFICE AND WORKS: SMITH'S FALLS, ONT.

An auction sale of pure-bred animals, male and temals, in lieu of the sale formerly held under the direction of the Live Stock Associations, will be held at Guelph on 16th March, 1904, under the auspices of the Guelph Fat Stock Club. Entries will be received until Jan. 30th, 1904. Full particulars later. Apply for further variculars to JNO. McCORKINDALE, Secretary, Guelph P. O.

# Catalogue Printing Our Specialty.

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

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



# YOU COULD SAVE MONLY BY HAVING

A COLD-STORAGE PLANT

We can teach you BY MAIL in a short course of lessons, which will cost very little, how to instal and manage your own cold-storage plant. You would be surpresed how little such a plant would cost you. Why not have it ready for next summer and be able to hold your produce for the highest prices without any loss?

Write for information about our course in cold storage.

GANADIAN CORRESPONDENCE COLLEGE,

Limited, Toronto, Canada WALTER JAMES BROWN, B. S. A., Principal.

# **Great French Roof Preservative**

Gives to old or new shingles the appearance of Slate, and renders them both waterproof and all outdoor Prevents the rusting of tin roofs and all outdoor metalwork, and lasts five years longer than ordinary roof paints. Cheap to nake and easy to put on. Full instructions for making will be sent on receipt of one dollar.

DONALD A. ROSS, Blue Mountain, N. S.

Rheumatism Cured.

Why do you suffer—Starr's Rheumatism Cure
will relieve the worst cases of acute, chronic, or
inflammatory rheumatism in 24 hours. Every
bottle has a positive guarantee to cure. Hundreds
of marvelous cures have been made in all parts of
Canada. If your druggist cannot give you Starr's,
send your name to us. send your name to us.
OSBOENE REMEDY CO.. 175 Youge St.. Toronto, Ont.

I GUARANTEE A \$5.00 PACKAGE OF BARREN KOW CURE postpaid, to make any cow under 10 years old breed, er reaund money. No trouble, no risk. Given in feed twice a day.

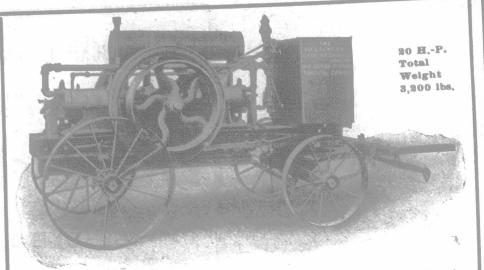
L. F. Selleck, Druggist, Morrisburg, Ont.



# GOSSIP.

A DISPERSION SALE.

As announced in the advertisement on another page, Mr. Andrew Knox, South Dummer, Ont., having sold his farm, will sell at auction, on January 27th, at the farm, his entire herds of Scotch and Scotch-topped Shorthorn cattle and Yorkshire swine, also his horses and farm implements. The farm is five miles from Netwood on the C. P. R. Stamed Boy =35721=, a richly-bred threehad, heads the herd, and many such hard bulls appear in the the satelegue, which will be thous; and the fesent on a males represent a reserve of favorite families.



Patented and Pend Gasoline Threshing Engine. The McLachlan Casoline Engine Co., Ltd., 201 Queen St. E., Toronto, or to W. C. WILCOX & CO., Winnipeg, agents for Manitoba and Northwest.

RELIABLE MEN CANADA and UNITED STATES

Salary or commission, \$840 a year and expenses, payable weekly, to introduce new discovery and represent us in their district, distributing large and small advertising matter. No experience, only honesty required. Write at once for instructions.

SALUS MEDICINE CO., LONDON, ONT.

# he Pioneer imited

is the train of trains between Chicago, Milwaukee, St. Paul and Minneapolis. It runs daily via the

# Chicago, Milwaukee & St. Paul Railway

and is without an equal in excellence of equipment. If you contemplate a trip to the Northwest, it is worth your while to enquire for rates and descriptive booklets via this route.

A. J. TAYLOR, Canadian Passenger Agent. 8 King St. East, TORONTO.



with 20th Century Clipper SRICE\$7.50

They feel better, look better, work better, and are less liable to catch cold. Don't let your horses stand in the barn all night with a heavy damp coat of hair on. It weakens them and they lose flesh. If clipped they dry out quickly, gain flesh and can be groomed in one fourth the time. Weighs only 15 lbs. Clips a horse in 30 minutes.

CHICAGO FLEXIBLE SHAFT CO...

110 La Salle Ave.

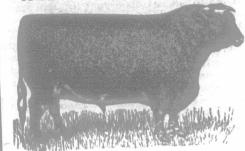


CLYDESDALE, SHIRE AND HACKNEY STALLIONS

Last importation Nov. 9th. 1903, consisting of stallions sired by Sir Everard. Hiawatha, Black Prince of Laughton, King of Kyle, Sir Thomas, Ro al Carrick, Clan Chattan, Lord Lothian, Balmedie, P. Charming, Prince of Airies, and from noted dams, Several are tried horses. If you want first-clashorses at fight prices, terms to suit, write for par-iculars and come; I will pay one half railroad fare. Think I can save you movey. hink I can save you money.

H. H. COLISTER, Travelling Salesman.

# CREDIT AUCTION SALE



35 HEAD SCOTCH AND SCOTCH-TOPPED SHORTHORNS Property of C. N. Blanthard, Appleby, Ont., on

Thursday, January 21st, 1904.

Some prizewinners, a number sired by Marr, Duthie and Cruicksbank bulls. Possibly more high-class sires have been used on this herd than any other in Canada. Farm 2½ miles from Burington Junction, 10 wiles from Hamitson. Ten menths' drecit, 5% discount for cash. S le at 1 p m. C. N. Blassbard, Prop., Appleby, Ont.; Auctioneer, T. Ingram, Guelph.

SPECIAL OFFERING IN

for the next 60 days; heavy-milking strains. Write for particulars to

W. W. EVERITT Dunedin Park Farm. o Chatham P.O. & Sta

Largest Importers and Breeders of

# orses



in the Dominion, including first-prize winner at Royal Agricultural Shew in England; and gold medal for best Shire stallion. gold medal for best Shire Horse Association, England; three silver medals for aweepstakes, eight 1st prizes, four 2nd prizes and one 3rd prize at Industrial Exhibition. Toronto, 1903. Stallions and mares all ages, home-bred and imported, always for sale. Over 50 to choose from. in the Dominion, including

# MORRIS & WELLINGTON,

Fonthill P. O., Welland County, Ont.

FOR SALE: Three imported Civdesdale stallions — Unmvar 2129, Vice-Admiral 3447, and Knight of Park 2921; also two registered Canadian-bred stallions, 2 years old. For further particulars address DAVIS & GRAMAM, — Schomberg, Ont



My offering now con-

Three Imported Two-year-old Clydesdale Stallions

of choicest breeding, best quality and immense size. Inspection invited.

Geo. Stewart Howick, P. Q.

# Clydesdales and Hackneys sale.

Four young Clydesdale and 2 Hackney stallions, all imported, representing the best blood in Great Britain. Prices right. Inspection invited.

MOWAT & HARE, 0 Shelburne, Ont.

Imported Clydesdales just landed. Five stallions—4 two-year-olds and one 3-year-old. The gets of Mains of Airies, Clan Chattan, etc. Prices right. OALEX. McGREGOR, Epsom, Ont. 4 miles east of Uxbridge station, on the G. T. R.

# FOR SALE. Seven Imported Clydesdale Fillies,

2-year-olds, sired by the prizewinning stallions, Ascott Corner. Handsome Prince, William the Conqueror, etc. All have been bred to stallions. For further particulars address:

PATTERSON BROS, Millbrook, Ont. Millbrook on G. T. R. Cavanville, C. P. R.

THE KINDEPGARTEN STUD FARM, GUELPH JAMES HURLEY, Proprietor. Breeder of Thoroughbred horses from noted sires and dams. All classes of horses for sale. Co.

ly by J.

1866

ORNS Ont., on

arr, Duthie high-class ny other in Junction, ocit, 5% dis-la shard, lugram,

nilking P.O. & Sta.

eders of

rses

n, including at Royal cw in Engold medal for donated by Association, ilver medals s, eight lat and prize at 3. me-bred and 50 to choose

TON, ounty, Ont. ted Ciydesdale

Uamvar 2129, Park 2921; also ns, 2 years old. mberg, Ont

ing now conmported

-year-old

esdale

ions

nd

y and immense

wart · Q·

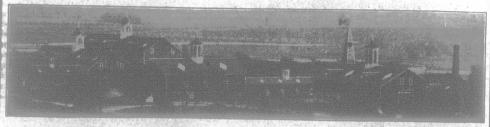
Sys Sale. Hackney stal-the best blood nt. Inspection lburne, Ont.

landed. Five ns-4 two-year-ets of Mains of es right. Ont. on the G. T. R.

LE. dale Fillies, orizewinning

queror, etc. allions. For Willbrook, Ont. nville, C. P. R.

FARM, GUELPH roprietor. rom noted sires and ses for sale.



# Percherons, Belgians, French Coachers.

CREATEST COLLECTION EVER GOT TOCETHER NOW ON HAND. Our 1903 importations include 20 first-prize winners from the leading European shows. At the International, Chicago, 1903, our horses won 40 prizes, 21 of which were firsts, including in Percherons, champion stallion, champion mare, champion American-bred stallion, best group of five stallions, best stallion and four mares. Although our horses are better, our prices are lower than can be obtained elsewhere in American. Catalogue on application.

DUNHAM, FLETCHER & COLEMAN,

Wayne, Du Page Co., Illinois.

# Imp. Clydesdales M Shorthorns



MESSRS. SMITH & RICHARDSON,

Importers of Clydesdale horses and Shorthorn cat-tile, are now offering 10 imported stallions, includ-ing sons of the renowned Baron's Pride, Prince Thomas, Royal Carrick and Mountain Sentinel; also 10 mares, 6 of them imported, and the balance from imported stock. Shorthorns, imported and home-bred, all ages, Stations:

Oshawa & Brooklin, G.T.R.; Myrtle, C.P.R. 40 miles east of Toronto. Long-distance Telephone at residence, near Columbus, Telegraph, Brooklin, o



LARGEST STUD IN THE WORLD OF AMERICAN-BRED

I breed, feed, and grow them with size, quality and action. Won over 80% of all first prizes and gold medals shown for at New York, Ohio, Indiana, Missouri, Iowa, Minnesota and Wisconsin State Fairs and International at Chicago for past four years, and am now selling stallions of equal value at \$500 to \$1,000 below my competitors. My stallions are young and fresh. 2 to 5 years old, and sold on a guarantee of 60%. Terms to suit the purchaser. Will pay half the R. R. fare to our barns to intending buyers.

CORRESPONDENCE AND A VISIT SOLICITED.

607 West Main St., CRAWFORDSVILLE. IND.



# GALBRAITH & SON,



JANESVILLE, WISCONSIN. Have just received a most valuable importation of Clydesdales, Shires, Suffolks, Hackneys and German Coachers.

THE largest and best importation made by anyone in recent years. Leading prizewinners at the principal shows in Great Britain. No such stock to be got elsewhere at any price. Particulars on application.

Branch establishments at Spokane, Wash., and Brandon Man. 1,100 STALLIONS IMPORTED BY US IN LAST 22 YEARS.

Varicocele Qured to Stay

**Cured in 5 Days** 

Hygrogele Under my treatment this insidious disease rapidly disappears. Pain ceases almost instantly. The swelling subsides. Every indication of Varieocele vanishes and is stead comes the pleasure of perfect health.

I cure to stay cured, Contagious Blood Poison, Kidney and Bladder Troubles, Nervous Debility, and allied troubles. My methods of treatment and cure are original with me and cannot be obtained elsewhere. I make no experiments. All cases I take I cure.

Gertainty of Cure Guarantee to cure you or refund with methods of treatment and cure will be reasonable and no more cures variocele. Established 1890.

Correspondence Confidential Write me your condition fully and you will receive in plain envelope a scientific and honest opinion of your case, FREE of Charge. My home treatment is successful. My books and lectures mailed FREE upon application H. J. TILLOTSON, M. D., 255 Tillotson Building, 84 Dearborn Street, CHICAGO.

H. J. TILLOTSON, M. D., 255 Tillotson Building, 84 Dearborn Street, CHICAGO.

## GOSSIP.

General "Phil" Sheridan was once asked at what incident he laughed the most.

"Well, I always laugh when I think of the Irishman and the army mule. 1 was riding down the line one day when I saw an Irishman mounted on a mule, which was kicking, and at last got its hoof caught in the stirrup, when I heard the Irishman say :

" Well, begorra, if you're goin' to get up, on yourself, I'll get off!'"

One of the best tributes to the singlejudge system we have seen is the testimony of an English writer on the judging at the late Smithfield Show, at London, England, where single judges officiated. He says: "The show was opened on Monday morning, and the judging of 364 cattle, 199 pens of sheep and 82 pens of pigs was completed by three in the afternoon of the same day, every ribbon having been tied, even to the championships, and the winners could be inspected in their order as they stood in the arena, their entry numbers displayed corresponding with the catalogue."

# TRADE TOPICS.

THE BESTS RESULTS .- People who hesitate to invest in a bottle of Absorbine, may take courage from the experience of others. Here is what one man says:

Hamilton, Ont., Canada, March 3, 1908.

W. F. Young, Springfield, Mass: Dear Sir, I purchased your Absorbine from a local dealer and am using it on my mare with the best results. The puffs are just about gone. Yours truly, THOMAS PTOLEMY. It is manufactured by W. F. Young, P. D. F., Springfield, Mass. The Ca-

nadian agents are Lyman Sons & Co.,

Montreal.

IMPROVED MOLASSES CATTLE FOOD is the name given to a new stock food, or rather a food newly introduced in this country by the Dresden Sugar Company, at Dresden, Ont., and advertised on another page in this issue. This food, which is sold at a price per ton about equal to that of bran at the present time, and would seem to be well worthy of a trial by stockmen. It consists of sugar-beet pulp, so pressed as to exclude surplus moisture, and run into drying kilns or cylinders, where it is evaporated by being subjected to a high egree of heat, while being constantly agitated. During this process, waste molasses from the sugar factory is mixed with the pulp, and the nutritive value increased to more than that of plain pulp. The finished article comes out in the form of flakes, perfectly dry, and somewhat resembling a coarse quality of tea, which keeps perfectly in any quantity, and is in suitable form for shipping safely any distance, and for mixing with any other sort of food, such as bran, meal, chaff or cut hay. It is claimed for this food, and apparently with good reason, that it is palatable, promotes digestion, helps to assimilate other food, saves a large proportion of ordinary grain ration, regulates the bowels, is fattening and increases the flow of milk. Testimonials from Michigan farmers and feeders, where the food has been used, are exceedingly favorable. A prominent stockman, who has used it, recommends four pounds of this as a good daily ration for a cow or steer, and a third of a pound for a sheep, mixed with ordinary foods. We take pleasure in directing the attention of stockmen to the advertisement of this food, and will be pleased to hear from those who give it a fair trial. Dried beet pulp, we believe, has for years been satisfactorily fed in Germany and other European countries; and in England, molasses is largely used by cattle feeders with the most gratifying results, and as in the Dresden food both these commodities are combined, its nutritive value as a food would seem to be well

Horse Owners Should Use GOMBAULT'S

The Great French Veterinary Remedy, A SAFE, SPEEDY AND



SUPERSEDES ALL CAUTERY OR FIRING As a HUMAN REMEDY for Rheumatism, Sprains, Sore Throat, Etc., it is invaluable WE GUARANTEE that one tablespoonful of CAUSTIC BALSAM will produce more actual results in an a viole bottle of any liniment or spavin curt mixture was made any liniment or spavin curt mixture was made any liniment or spavin curt mixture was made any liniment or spavin curt mixture was a last or set that the directions for its us. Send for desurptive circulars, testimonials, etc. Address

THE LAWRENCE-WILLIAMS CO., Toront Con.

BAWDEN & McDONELL Exeter, Ont.



Glydesdale

Our new importation has arrived, and we have now about 90 stallions for sale, ages from 2 to 7 years; the best that could be purchase in Sootland and Rhyland.

T SAVES TROUBLE and annoyance many times to have



handy in case of a bruise or strain. This remedy is rapid to cure, pleasant to use, and horse soon ready for work. No blis-ter, no hair gone. ABSORBINE

removes any soft bunch from animal or mankind TO THE POST OF THE PROPERTY OF Agts. for Canada. MORTERAL

CLYDESDALES

AYRSHIRES and POULTRY. R. Hess & Sons, Howick, Que.

importers of Clyde, Percheron and Hackney stallions. Ayroshire cattle, and poultry, have for sale 5 Clyde stallions, wired by Baron's Pride, Sir Everit, and Royal Carriek, i Percheron, and I Hackney, winners. Ayrahires of both serve, and poultry.

# **GLYDESDALE MARES**

Registered mares, from three years old and upwards, for sale.

NELSON WAGG. Claremont station, C. P. R., 2 miles. Stouffville station, G. T. R., 4 miles

ROSEDALE STOCK FARM J. M. Gard-

CLYDE AND SMIRE HORSES
SMORTMORN OATT
OM LEIGESTER CHUEP

Choice imported and home-brait wildows and mare, also young stock. Two extra more was present in the control of t



BUSHNELL (McDonough Co.), ILL., IMPORTERS AND BREEDERS OF

# SHIRE, PERCHERON, SUFFOLK, BELGIAN, HACKNEY STALLIONS

At the recent International Show we won 20 Premiums and one Gold Medal, We also imported the champion Shire stallion and the third premium Shire stallion at the same show. If you want a prinewlaner, come to the same place that our competitors do to find them.

If we can sell importers their prizewinners, why can't we sell you yours? We have made seven importations the past 12 months and have another

Our warrantles are good, and not given within view to get your money only, but to give you a good, honest deal. We will charge you no more for these prize-winners than others charge for the cheap, old-fashioned kind. Have imported more libire stallions than any two of our competitors com-

Write for our 25th annual catalogue and poster, J. G. TRUMAN, Mgr., Bushnell, McDonough Co., Illinois.

# **CLYDESDALE and YORKSHIRE**

ed during the past year,

# COACH STALLIONS

AND FILLIES.

A large lot of extra good stallions and fillies just landed, and most of the fillies served by prinewinning sires. Will be on sale at

FRASER HOUSE, LONDON.

LONDON, ONTARIO, and DALGETY BROS., LONDON, ONTARIO, M.

We now offer for sale 20 head of Olydesdales, including fillies and mares, from one to five years old, and among them a number of prizewinners. Also a few young Clyde stallions and Shorthorn cattle. People wanting to buy should come and see them before purchasing. Inspection invited.

# Beaverton, Ont. & TISDALE, Long-distance 'phone in connection with farm, 70 miles n. of Toronto on Midland Div. G. T. R.

I have just returned from Scotland with a fine lot of Clydesdalestallions of great breeding and individuality. They are indeed a fine lot, and just the kind the country needs. Write for prices and description, or, better still, come and see and be convinced of what I say.

COLQUHOUN, om

MITCHELL P.O. AND STATION (Q. T. R.), ONT.

WATT'S SONS. REEDERS OF Shorthorns and Clydesdales R. and C P. R. Tel. No. 42a.

Elora Station Salem P. O.

FOR SALE: A number of choice young bulls fit to head any herd. Several good young cows and heifers, daughters and granddaughters of great Royal Sailor (imp.), and in calf to Scottish Beau (imp.), by Silver Plate.

Let us know what you want and we will try to supply you at a moderate price.

## GOSSIP.

Mr. A. C. Hallman, Breslau, Ont., breeder of Holstein cattle and Tamworth hogs, writes: "My Holstein herd now numbers over 40 head, all in fine breeding condition and not a cull in The offspring of my silvermedal bull, Judge Akkrum De Kol 8rd, are showing up very fine in appearance and doing splendid as milkers. My young bulls, that won such honors at Toronto, are growing finely, and will be worth looking after by those who are in want of a good bull. To reduce my herd, will dispose of about 30 head of Holsteins. I have also some very nice young Tamworth boars and sows to offer.

It is often remarked that an unaccustomed traveller can get on pretty well if he will keep his eyes and ears open. A native of Ireland landed at Greenock, and wanted to take the train to Glasgow.

Never having been in a railroad station, he did not know how to get his ticket; but he saw a lady going in and determined to follow her lead. The lady went to the ticket-box and

putting down her money, said: " Maryhill, single."

Her ticket was duly handed to her, and she walked away. Pat promptly planked down his money and said:

"Patrick Murphy, married."

People are never aware of their own peculiarities of dialect. The halfeducated Cockney cannot understand what people mean in saying that he drops his "h's." Many Scotchmen as well as Irishmen are quite sure they are faultless of accent, even when they are richly endowed with it.

It is related of a Scottish literary man, who has for some years been a resident in London, that he was taken to task one day by his own daughter for the broadness of his utterance in pronouncing the word "difference."

"How do I pronounce it?" he asked. "You say 'dufference,' " she answered.

" And what do you say?"

"'Difference," she rejoined. Looking at his daughter a moment and getting her to repeat the word, he

said "Well, now will you be so kind as to tell me the dufference between 'dufference' and 'dufference.'

Few people outside of his own immediate circle know that Sir William Van Horne, Chairman of the Canadian Pacific, Director of the Postal Telegraph and Commercial Cable, and President of the Cuba Company, is one of the most enthusiastic botanists on the continent, and also one of the most ardent admirers of art.

Sir William, though he wears with grace a British title, was born in the He sold books on the United States. Chicago and Alton Railway many years ago, rose in time to the dignity of selling oranges on the Illinois Central, and later in life assumed the many high positions he now holds. His title he won for eminent service to the British Empire in the building of the Canadian Pacific.

As a boy he-worshipped nature. When on the Illinois Central Road he was the butt of his companions, because he was always armed with a hammer for the breaking of any queer rocks that happened in his way, and carried a book for the discovery of the identity of those unknown rocks and flowers he

In later life, he established at Montreal a splendid conservatory and an excellent art gallery. He is himself an artist with the brush and of no mean reputation. He has at all times three or four botanists in his employ in the far off corners of the world, whose business it is to find and bring to his Montreal conservatory all the new flowers that they can find. He hears of a new orchid in South America. Immediately his men are sent in search of it. He hears of a new lily in Central Africa, and never rests easy until he has captured it.

These things are his dissipations. His offices are no mere honorary affairs. He is the practical working head of the Cuba Company, a very active participant in all the affairs of the Canadian Pacific; in fact, one of the most busy of the big men of the continent -[New York

# **Thorncliffe** Clydesdales

THORNCLIFFE STOCK FARM has for sale a carload of Clydesdale stallions and mares, including prizewigners. Some of the marea are in foal to the justly-celebrated stallion, "Lyon MacGregor." For prices, etc., apply to om etc., apply to

# ROBERT DAVIES 36 Toronto Street, TORONTO.

YORKSHIRE

Guaranteed to cure Coughs, Colds, Heaves Thick or Broken Wind, Influence, and Epizootic among horses.

PRICE 500.

# STOCK FOOD

A grand preparation to make stock thrive. It gives them a good appetite, a glossy coat, a loose hide,

coat, a loose made, a healthy appearance, and purifies the blood. PRIOE v5c., 50c. and 84. These are both well-tried finglish preparations, and are highly recommended by the best stockmen of the Dominion. For sale by druggists and general merchants, or om

Lyman Bros., Wholesale Agents, Toronto. FOR SALE The Canadian bred dr ft stallion, horse with two white hind heels and narrow strip on b, weighing over 1,600 lbs., and rising four years.
Price reasonable. CECIL ELLIOTT, Tu lamore, Ont.

SHROPSHIRES FOR SALE.

Twenty shearling rams; twenty shearling ewes; twenty-five ram lambs; also twenty Coswold rams, shearlings and lambs. These are animals of choice quality. Prices very low, quality considered. ch collie puppies from first-class sto D. G. GANTON, Elmvale P. O., Ont. om

# HUNTLYWOOD FARM SHORTHORNS

SOUTHDOWNS We have for sale two fine young bulls of the noted Broadhooks tribe and one Secret. Write om for prices.

W.H &BSON, Mgr., Point Glaire P.O. Quehec

FOR SALE AVESTIBE BULLS—Pretonius, Que., April, 1901 (by Duke of Clarence), importer of carcheskie, dam Pansy, by Harcourt of B 1893, red nd white, with two others by Carlyle of Lemnesspok 12717, imp., 1655. For particulars apply to J. BERGIN, Cornwall, Ont.

# **ELM PARK STOCK FARM**

WE desire to thank all our patrons for the way they have shown their appreciation of our stock their appreciation of our stock this season, more particularly as all our best bulls this year are kept in Ontario. Calves by the champion Aberdeen-Angus bull. Prince-of Benton, are coming now, and we never had more promising youngsters. We have a few in-calt cows for sale also a few Suffells remarks sters. We have a few in-call cows for sale, also a few Suffolk rams to dispose of.

JAS. BOWMAN, - GUELPH, ONT.



# 100 Head.

Calves to 6-yearolds. If you want
to start a small
herd, write for
particulars. The
quality and
breeding is of the
best. A good
foundation
where you can get

means success, and here is where you can get it at prices and terms to suit your purse. om D. SMITH. COMPTON, QUE.



REWTON'S Heave, Cough, Discomper and Indigention Cure.
A veterinary specific for wind, throat and stomach troubles.
Strong recommends. \$1.00 per can, mail or express paid.
Newton Hemedy Os.,
Tolede, Ohio. Your druggist can get it from any wholesale druggist.

1866

188

M has prize-are in allion, , etc., om

s, Heaves

h well-tried

phly recom-Dominion.

, Torento.

r ft stallion, is a dark bay rrow strip on

four years lamore, Ont.

earling ewes;

als of choice

stock. D., Ont. om

FARM

IS AND

WNS

bulls of the ecret. Write

om

2.0. Quehec

8—Pretonius, Ness, Howick,

e), importer of of B 7893, red of Lemnessock

II, Ont.

shown or stock

ly as all kept in

ampion

and we young-all cows

rams to

LPH, ONT.

GLESIDE

REFORDS

00 Head.

lves to 6-year-ls. If you want start a small

rd, write for rticulars. The

raculars. The hality and eeding is of the est. A good oundation re you can get our purse. om

ON, QUE.

Heave, Cough, Dis-d Indigestion Cure. ry specific for wind, stomach troubles, memorias. \$1.00 per express nat/

express paid.

Remedy Co.,
ile. Your druggist
wholesale druggist.

LE.

dered.

uenza,

DR. J. L. SCOTT

The Discoverer and Compounder of

Formerly State Veterinary Surgeon of Wisconsin, U.S. A., and President of the State Veterinary Medical Association.

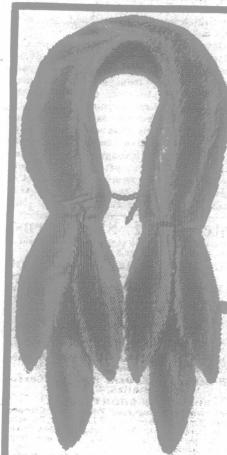
I take the liberty to place the facts of this dis-

I take the liberty to place the facts of this discovery before all stockmen throughout Canada. This Dietetic Food, highly medicated, is the greatest flesh and blood food that has ever been compounded and placed before the public, standing on its own merit. Every pound is equivalent in active principle to ten; therefore, twenty-five pounds is equal to 250 pounds of ordinary stock rood. In feeding it goes three times further, therefore the cost is just one-third. After spend ing thirteen years experimenting and perfecting as a flesh and blood food, and preventive of disease, for horses, cattle, sheep and swine. I ask all stockmen to be convinced of my statement by using this Dietetic Compound. A own interest, insist on having Dr. Scott's and no other. Put up in 25-pound pails for \$2.50, or in \$1.00 and 50c. packages. Read following testimonial:

TO WHOM IT MAY CONCERN:

After using The Condensed Dietetic Stock Compound (prepared by Dr. J. L. Scott, of London, Ontario) during the past winter. I take much pleasure in recommending it as a valuable preparation for keeping stock in a healthy condition, as the result of its use in my herd has exceeded my most sanguine expectations. Yours truly, (Signed) T. E. ROBSON.

COMPOUNDED BY DRS. SCOTT & LONDON, ONTARIO, CANADA.



Ladies and Girls. You Can Earn This

In a Few Minutes

SEND your name and address, and we will mail you post paid 8 large beautifully-colored Pletures 16 x 20 inches, named "The Angel's Whisper,"
"The Family Record," and "Simply to Thy Cross I Cling," to sell at 25c. each. We also give a 50c. certificate free to each purchaser. These pictures are handsomely finished in 12 colors, and could not be bought in any store for less than 50c. each. Every one you offer them to will buy one or more. When sold send us the money, and we will send you this

# HANDSOME FUR SCARF

Over 40 inches long, 5 inches wide, made from selected full-furred skins with six fine full black tails, the very latest style. We know you will be more than pleased with it. Miss J. Boekers, Rossenberg, Can., said: "I write to thank you for the handsome fur scarf. It is just beautiful. I could not buy one like it in our store for \$3.00." The regular price in all fur stores is \$3.00, and they fully equal in appearance any \$50.00 Fur Scarf. We could not think of giving them for so little, were it not that we had a great number made Fur Scarl. We could not think of giving them for so little, were it not that we had a great number made specially for us during the summer when the furriers were not busy. Ladies and girls, take advantage of this chance and write for the pictures to-day. We guarantee to treat you right, and will allow you to been out money to may your nostage, so that your Furriers. teep out money to pay your postage, so that your Fur Scarf will not cent you one cent. Address THE COLONIAL ART CO., Dep. 585 Toronto.

Aberdeen-Angus Bulls, THE SUNNYSIDE HEREFORDS For sale: One one-year off, two bull calves, sired by Land of Tweedhill, Will sell right. On Brunbe Station. WALTER HALL, Washington, Out.

High Park Stock Farm Salloway Cattle. 4 choice young bulls and heiters, 6 months to 2 years old, for sale. Prices right. Come and seg. om Shaw & Marston, P. O. BOX 294, Brantford, Ont

Shaw & Marston, P. O. BOX 294, Bransford, Out
THE MAPLES FARM HEREFORDS

Near Orangeville, Ont., on C. P. R.

(Owen Sound branch).

Imported and pure-bred dams, and sired by imp. Spartacus, No. 109629, —1716—, winner of sweepstakes and silver medals, Toronto, 1902 and 1903. Young bulls a specialty. Prizewinners wherever shown. Inspection invited. Popular prices. W.H.HUNTER.-om Near Orangeville, Ont. THE Maples P.O.

W. G. PETTIT & SONS FREEMAN, ONT., Importers and Breeders of

Scotch Shorthorns

110 head in the herd, 40 imported and 20 pure Scotch breeding cows. Present offering: 3 imported and 6 pure Scotch from imported sire and dam; 6 Scotch-topped from imported sire; also imported and home-bred cows and heifers of the most popular type and breeding. A few choice show animals will be offered. Burlington Jct. Sta. Telegraph & Telephone

90 head in herd, headed by Imp. Onward, by March On. For sale: 18 choice bulls, imported and home-bred, from 8 to 22 months old; 12 choice cows and heifers. Prices reduced to make room for new importation. Visitors welcome. O'NEIL BROS., Southeats. Ont... Lucan Sta. G. T. R.

gate, Ont., Lucan Sta, G.T.R.

# HIGH-CLASS HEREFORDS

We have for sale the following choice young stock, which have been bred from imported atock. Intending buyers will do well to inspect the following: 18 young bulls, 25 young heifers, and 15 cows; also 20 Barred Plymouth Rock cockerels. Correspondence invited. om A. S. HUNTER, Durham, Ont.

Six Shorthorn Bulle Fit for service; Also cows and heifers, imported and home-bred, of Scotch breeding, prizewinners. Moderate prices. DAVID MILNE & SON.

Cethel Station and P. O, Ont

Scotch Shorthorns Leicester Sheep — For christopher (imp.) 28859, and Tuscarora Chief 46733 No reasonable offer refused. Leicester rams, yearling ewes, ewe lambs and young bred ewes of rich breeding. Write for my prices and let me quote you on something choice. Address:

W. A. DOUGLASS, P. O., Tuscarora, Ont Station-Caledonia, Ont.

GOSSIP.

Messrs. W. B. Watt & Sons, Salem, Ont., report the following recent sales of Shorthorns: "To Messrs. James Bowes & Sons, Meaford, Ont., an extra good roan bull calf, by Imp. Scottish Peer, and out of a full-sister to the champion, Judge; to Mr. A. Ackerman, Palmerston, Ont., a fine red bull calf, by Scottish Peer, and out of a good Royal Sailor cow, and a nice pair of heifer calves to John Barclay, Guelph."

It is with pleasure that we would draw the attention of our readers to the advertisement of Mowat & Babe, Shelburne, Ont., importers of Clydesdale and Hackney stallions.. For many years the members of this firm have been recognized as being among the foremost horsemen of Dufferin County, and scores of choice mares and geldings, got by their stallions, have been shipped from the country to the British market by horse-dealers. They early recognized the superior value of the Clydesdale when crossed upon mares of their district, and their selections have proved most successful, having been appreciated by the farmers of the county, whose confidence they have been able to retain. The last importation made by this young and enterprising firm was selected by Mr. Mowat in Scotland during the past season, and included a few choice twoyear-cld Clydesdale stallions and the two-year-old Irish-bred Hackney, Bally

A representative of this paper recently visited Shelburne and had the pleasure of going over their stock. Of the Clydesdales, they have Overdale, a typical representative of the breed from the ground up. His feet and legs are of the kind that made Clydesdales famous, and in action he has no superiors of his age in Canada. The writer was somewhat surprised to find such a grand colt in the possession of a comparatively young importing firm, for had he been at Chicago, there is no reason to believe that premium honors might not have been his prize. Nor would his breeding show him to be otherwise, having as sire Montrave Shah, by Mentrave Sentinel, dam by Prince of Fortune, and second dam by Sir Everard, the sire of Baron's Pride. Another well-bred individual is Bank's Knight, by Baron's Pride, dam by Hamlet. He is one of the low-set type, thick and muscular, with strong bone. Prince of Roxborough, by Macgregor, dam Pioneer, a famous stock horse of Darnley breeding, completes their two-year-old trio. The latter is very heavy in bone, and has a charming carriage, being possessed of the typical Macgregor body, head and neck.

In service, for the past year, County Squire [3541], six years old, by Kippendavie Stamp, has done good work. He is a hig, thick horse of eighteen hundred pounds, with feet and legs of good quality, also moves well, and gives evidence of becoming a most useful

The two Hackneys at present in the stud are full brothers, both being bred by Frederick Wrench, Killacoona, Ballybrack, Ireland. They were sired by the noted Garton Duke of Connaught, dam Lady Alington, by the champion, Danegelt. Bally Garton, the four-year-old, is well known to Ontario horsemen, having been first as a three-year-old at Toronto in 1902. Since that time, he has improved wonderfully, having filled out in the body, and become more graceful. His three-year-old brother, Bally Duke, was imported this year by his present owners. He has been pronounced by good Hackney judges as without a superior in conformation in Canada. In type, he is a true Hackney, his head and neck representing the ideal of the breed. His bone is clean. His eyes are well placed, and as an actor he gives wonderful promise. Parties who intend purchasing either Hackneys or Clydesdales should either correspond with this firm or visit their barns in Shelburne, on the Owen Sound branch of the C. P. R. The prices are right, and fair treatment is assured.



Comprise Missies, Stamfords, Floras, Clareta, Princesses, Red Roses, Young Starlings, Fashions and Matchlesses. They number to head for sale. There are several choice heifers, 17 heifer calves, 3 bulls fit for service and 4 bull calves. A few older females. Thos, Mercer, Markdale P. O. and Station

WILLOW BANK STOCK FARM, Established 1855.

SHORTHORNS AND LEICESTERS A grand lot of young stock for sale, rich in the blood of Scotch Booth and Bates families R sicrucian of Dalimeny 45220 (imp.) at head of herd. We breed the best to the best Leibester sheep of rare breeding and quality. Address:

JAS, DOUGLASS, Proprietor, P. O. and station, Caledonia, Ont.

VALLEY HOME STOCK PARM. S. J. PEARSON, SON & CO.

Scotch Shorthorn Gattle and Berkshire Swine FOR SALE: 6 young Scotch built, sumt from imported stres and dan; also young cows and helfere, and young Bernshire swine of both same. Come
and see them, or write for particulars.

C.P.R.Station, Mondowvale Telegraph and F.O.

# R. MITCHELL & SONS.

Melson P. O., Burlington Jct. Sta.

A baker's dosen of suppy bull onlyes, 8 to 12 mon-old, reds and roams, sired by the Frinces Royal bull-tump. Prince of the Forest: 40160 -, and out of high-class Scotch and Soutch-topped cows. Also is thick-fleshed he flers, in call to Junp. Prince of the Forest, placed at head of herd at cost of Siol. Come and see, or write for prices. J. & E. OBINNICE, Chatham, One.

GEDARDALE FARM Por sate, three your cold to the yours. All good thindead wide said from the stock of the said from the stock. Glorosetent and Lord Glorosetent and Lord Glorosetent and Lord Glorosetent and three buffers from one to two years old, two of them in old, trilly beauty and for the Station of Stati

SHORTHORN COTSWOLD SHEEP of good breeding and individuality. Young stock for sale at reasonable prices. Special-Two 6-months and two yearling bulls.

O Seven ram lambs.

CORRESPONDENCE SOLICITED. ADDRESS J. E. DISNEY, GREENWOOD, ONT.

# SHORTHORN BULLS 3

FOR SALE.

Two 2-year-olds, I bull calf, all of good breeding and from deep-milking strains. Prices right. Also helfers for sale, W. B. ROBERTS, - SPARTA, ONT.

# GOSSIP.

J. B. HOSATE'S HORSES.

A stable from which a large and everincreasing number of horse-breeders, both in Ontario and the States across the line, renow their stock, is that owned by J. B. Hogate, Sarnia, Ont. Clydesdales, Shires and Hackneys now comprise the stud, and in each breed are horses of outstanding merit. Several importations are made each year; some sixty head being disposed of in 1903. The last lot to cross the water arrived in November. This was a shipment especially selected by Mr. Hogate himself, and were bought for the lowest figure at which the power of spot cash could secure them. In this lot is a Clydesdale stallion, King Dick, that is particularly good and attractive. . He is a very fashionably-bred horse, his sire, Black Prince of Laughton (10164), being a grandson on both sides of the renowned Prince of Wales (678), and his dam, Laughton Queen, was by St. Lawrence, grandem by Darnley (222). In 1898, King Dick stood second at the Royal Show, beating Royal Carrick, a feat of which very few horses can boast. Several other show-yard honors also shind to King Dick's credit. Needless to say such a horse is possessed of splendid quality of bone and good feet and pasterns. Besides this, he makes a remarkably attractive appearance, owing to his neat head and well-turned neck, well-knit body and heavy quarters. A three-year-old of more than ordinary merit is Nation's Pride (11440), by Prince of Airies (10103), by Mains of Airies, dam Jess of Kilnhill, by Pride of the Clans. Nation's Pride is a big, strong colt, with bone of good size and quality, and with a capability of displaying himself that few horses of his size possess. When a yearling, he was champion at Chapleton Show, and had the same honors as a two-year-old at the Hamilton Show, and as a three-year-old stood in the short leet for Glasgow Premium, which his half-brother, Royal Cornell, received. A real good type of a two-year-old is Bounding Tom, by Sir Thomas, dam by Prince Romeo (8144). This colt is built on the massive drafter plan, and handles himself most creditably. Lord Mac is another two-yearcld with a good record and striking individuality. He is a big, well-matured colt, fine and clean in the bone,

These are but a few we have mentioned to illustrate the kind of Clydesdales kept at the International Importing Barns. Among those not noticed are Gallant Chattan, winner of third prize in the three-year-old class at the Toronto Industrial; King's Coin, a remarkably big and compact horse, extensively used in some of the test districts in Scotland, and two two-yearolds, by the champion, Hiawatha, are also included in the stud.

The Shires at present have but two representatives, but they do the breed great credit. Nateby Pioneer (20758), a two-year-old, by Gunthrope Advance (3136), is a horse of which something should be heard about the time of the Spring Stallion Show. Of immense size, well-turned, combining quality with true Shire massiveness and quantity of bone, he displays himself with all the style and activity of a carriage performer. He has never been taken to shows, consequently has no winnings to his credit, but with his quality, scale and true Shire character, he should find a brilliant resette at some of our exhibitions. The other Shire is also two years old, by the same sire, and is fit company for his promising half-brother. He is hardly as massive, however, but is by no means small, and is a good type of the modern Shire.

There are three Hackneys at present in the stable. One a get of Pedro, who stood third at the Industrial, and who has since been bought by a Sarnia syndicate. This new colt is only a pearling, and, as yet, not thoroughly I, but he has in him all the inthe will be able, in due liner the goods. Another Factor Rosens, by the cham-1964, dam Charming pion, I promises to do May, and to credit to his illustrious sire.

The only mature Hackney in the stable

Shorthorns, Leicesters

and Berkshires. ready for service, and suckers ready to wean. Write for wants, or come and see E. Jeffs & Son, Bond Head P. O., Bradford and Beston Stas, G.T.E. o

# Mertoun Herd of Shorthorns

Betablished in 1889. Prince of Banff (imp.) =45212 - heads the herd, THRE TO CHOICE YOUNG BULLS for sale; also A FRW FFMALES, in call to Prince of Banff. Prices right.

# D. HILL, STAFFA P.O., ONT.

Scotch-Topped Shorthorns—(Imp.) Captain Maywinner of sweepstakes at Toronto (1900), let at Toronto and London (1902), at head of herd. Animals of all ages and both seres for sale.

JOHN C. BRICKER.

Elmira P. O. and Station, on G. T. R.

SHORTHORNS Now offering 5 bulls, from 4 to 17 mos. old, sired by Royal Duke, he by Royal Sallor (imp.). Also temales, all ages, some in calf. Prices moderate. o J. R. McCALLUM & SON, Iona Sta. & P.O., Ont.

# **Queenston Heights Shorthorns**

Two Scotch bull calves, choice heifers, at reasonable prices.

**DUEENSTON, ONT.** HUDSON USHER. -

Farm 3 miles north of Niagara Falls.

# Ghoice Shorthorns and SHROPSHIRE SHEEP.

am offering 5 YOUNG BULLS of except tional breeding and quality, 6 to 15 months old.

Also 10 SHEARLING rams, fit for any herd. I am pushed for room. Will sell reasonably to am pushed for room. Will sell reasonably to quick buyer. Be sure to get my prices before purchasing elsewhere CHAS. CALDER, Brooklin, Ont.

# CHAS. RANKIN, WYEBRIDGE, ONT.

IMPORTUR AND BRENDER OF SHORTHORN CATTLE and OXFORD DOWN SHEEP.

Herd headed by Pride of Scotland (imp.).
FOR SALE—Females and bulls of all ages, from noted Scotch families.

FOREST HILL STOCK FARM HIGH-SHORTHORNS tor sale. A choice lot of young bulls, from six to eighteen months old. Apply G. W. KEAYS, HYDE PARK P. O., ONT.

Shorthorns Lincolns & few choice bulls from 12 to 15 mths. One bull 23 mins. Also females any age for sale.

J. K. HUX. RODNEY. ONTARIO.

L. E. & D. R. R. and H. C. R.

Shorthorns and Shropchires, flootch and Scotch topped families of thorthorns. Young bulls and helders for sale, bred direct from imported stock; all and Cooper strains. BRUCE BROS., Gormley, Ont. CTR 0

shortherns, Berkshires and Leicesters. FOR SALE: Choice two-year-old heifers, well gone on calf; also yearling heifers, bull calve. Board sews fit for breeding, and young pigs.

SRAEL GROFF, ALMA, ONTARIO

SHORTHORNS SALE I have on hand 9 young heifers from 5 to 11 month., 8 young buils from 7 to 11 months, and 3 or 4 bred heifers (bred to Boyal Sovereign), that I will dispose of at reasonable prices to quick buy-rs, as I am overcrowded. This is a great chance to get you first-class young stock of good breeding and s me first-class young stock of good breeding and individuality. Be sure and get my prices before purchasing. Address RICHARD WARD, Balsam, Ont.

# FLETCHER'S SHORTHORNS

Comprise Cruickshanks, Orange Blossoms, Nonpa Comprise Cruickshanks. Orange Blossoms, Nonpareils, Crimson Flowers, Mysies, Languishes, Butterflies and Jessamines, and are headed by the noter Duthie-bred bull, (Imp.) Joy of Morning (76929), winner of 1st prize at Toronto Exhibition, 1903 Several hoice heifers and young cows bred to Joy of Morning, also bull calves suitable for herd headers, for GEORGE D. FLETCHER Erin Shipping Sta., C.P.R. o Binkham P.O.

# 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 tamb to a Royal winner. Also ewe lambs from imported Dudding ewes at reasonable prices.

8 young bulls, 11 heifer SHORTHORNS. olds and young cows for sale. Several Miss Ramsdens and the very best families represented. Prices moderate.

G. A. BRODIK, Bethesda, Ont. Stouffville Station. calves, yearlings, two-year

FOR SALE-1year-ling bull, bull and heffer calves; Berk-shire bears and sows, ready to wean. Write land also combines with it considerable bay, standing 16.83 hands. As expected speed. He is not simply a parlor actor, but is capable of doing some work. In conformation, he inclines to the compact solid, rather than to the rangy type, and whatever may be said for the latter in showrings, it is certain that the substance of the former can be used to good advantage on the light mares of this country. A visitor to Mr. Hogate's stables is well repaid for his trouble, if he have any interest at all in good horses. Inspection is solicited at the barns, and interested parties living at a distance will have the opportunity of looking over some of the best of the stud at the Spring Stallion Show next March.

> Ottawa poultry-raisers have organized the Ottawa Poultry Association, with Lord Aylmer as Hon. President; A. G. Gilbert, President; S. Short, Vice-President, and J. S. Allen, Secretary-Treasurer.

English breeders of Lincoln sheep are making very satisfactory sales for export to South America. Messrs. S. E. Dean & Sons, of Dowsby, have recently sold to Mr. E. H. Cartwright, among others of their stud rams, a son of the champion ram at the Royal Show at Maidstone, for the handsome price of 250 guineas (\$1,300). Another important consignment despatched to the Argentine comprised 32 ram lambs, 8 ewe lambs and 7 yearling rams from the flock of Mr. W. B. Swallow, of Horkstow.

Messrs. A. Hume & Co., Menie, Ont., breeders of Ayrshire cattle and Yorkshire pigs, write: "We now have our water system, 'The Woodward Galvanized System,' in running order, and everything else in our stables complete. At the head of the row of thirty-four, stands our aged stock bull, Prince of Barcheskie, imported in dam, winner of many prizes, and sweepstakes at London, 1903. Our young imported bull, Royal Star, which won first in his class at Toronto, and headed the first-prize young herd, has grown wonderfully, and promises to make a large bull of good dairy quality. Our young bull, Lord Lionel, winner of second prize at Toronto and London, for bull calf under one year, has grown well, and is now a choice one. We offer him for sale in our advertisement, and also a full-brother, dropped in end of August, 1903. Our stock of Yorkshires is not very large at present, but we have some very nice young sows six months old, and another litter about two months old, which we offer for sale."

Mr. T. H. Hassard, Millbrook, Ont. importer of Clydesdale horses, sailed for Scotland last week for a new importation. He expects to return by February first, and to bring quite a number of young stallions. He writes that he has at present several good Canadianbred and imported stallions and mares on hand at Millbrook, and that all correspondence during his absence will receive prompt attention.

S. J. Pearson, Son & Co., of Valley Home Stock Farm, Meadowvale, Ont., whose new advertisement appears on another page, writes: "We are offering some very fine young Scotch Shorthorn bulls and heifers. Some are from imported sires and dams. Among the offering is the very fine young bull, Royal Scot, about thirteen months old, sired by the imported Roan Lady bull, Scottish Pride, dam the imported Jilt cow, Rose 3rd. Royal Scot is a lowdown, deep, thick, even-fleshed animal, and belongs to two of the most noted families in Scotland, which makes him a very desigable young bull. Other young bulls, sired by Scotland's Fame (imp.) and Trout Creek Banff, are a fine lot and in good condition, being low-down, thick, heavy-fleshed animals. The Berkshires are a fine lot of the right type. Ages are from six weeks to one year. Many of the young sow's have just been bred to a very fine young boar, bred by R. P. Snell, of Snelgrove." Parties looking for choicely-bred stock should look up the firm's advertisement. The farm is one mile from Meadowvale.

# THE VALUE OF CHARCOAL.

Few People Know How Useful it is in Preserving Health and Seauty.

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

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 smoking, drinking or after eating onions and other odious 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 losenges, 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 complexions, 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; 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."

Scotch - bred Shorthorns, with size and quality, at bargain prices; reds and roans, of b th sexes, from 6 to 12 months old. L. K. WEBER, Hawkesville, Ont.

MANITOULIN SHORTHORNS Edwin Beck, Gore Bay. Manitouin Island. Breeder of SCOTCH and SCOTCH-TOPPED SHORT-HORN CATTLE. A few choice animals.

SPRUCE HEDGE SHORTHORNS. We are offering females of all ages. Among them are at are sure to win. prizewinners and youngsters th JOHN McKENZIE, Koward P.O. and Chatsworth Station, C.P.R.

ROSEVALE SHORTHORNS. Herd comprises Augustae, Polyanthus, Orimson Flowers, Minas, Strawberrys and Lavinian. For cale, both sexes, the get of Imp. Marenge Haydon Duke, Imp Baron's Heir, Imp. Golden Ahle and Imp. Golden Conquency Golden Conqueror. W. J. Shean & Co., Owen Sound P. O. & Sta.

SHORTHORNS for Sale IMPORTED AND
Cows, Heiters and young bulls, Finest quality
Scotch breeding. Prices low.
W. DUHERTY. Glen Park Farm, Clinton, Ont.

CHOICE SHORTHORNS.



We are now offering 12 helfers 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.,

Pergus Station. SHORIHORNS and RERESHORDE. A choice and Scotch-topped. Berkshires of the bacon type; also Embden geese. Price reasonable.

MAC CAMPBELL, Samson, Ont. Northwood station.

SHORTHORNS AND BERKSHIRES. Shorthor. S.—We have for aale several excellent young ouls, ready for service, that will make show animals; also cows and young bred heifers. Herkshires.—Young boars and saws, of rare breeding and individuality for sale at all times. Write us and individuality, for sale at all times. Write us your wants, we can supply you F. MARTIN-DALE & SON, Caledonia Sta., York, Ont. o

J. WATT & SON.

Salem P.O., Ont. Stations G. T.R. & C. P. R., Elora. SHORTHORNS AND BERKSH REA Ready for shipment, bulls by Royal Wonder and Scottish Pear; also three two-y ar-old heiters, by Royal Victor and Valasc 40th, bred to Royal Archer (imp.) or Prince Louis (imp.). Our stock show excellent quality and individuality. Young Berkshire brars and gitts, rich in the blood of the great sweepstakes Baron Lee 4th. Write for description and prices. D 1866

it is in

charcoal

nt disin-

but few

into the

cleansing

he more

is not a

the gases

in the

ries them

th after

ng onions

'improves

teeth and

eminently

es which

owels; it

from the

one form best char-

ney is in

they are

ed Willow

antiseptics

the form

nges, the

enges will

condition

mplexions,

d, and the

sible harm

d use, but

ding of the

"I advise

s to all

n stomach

complexion

and throat;

eatly bene-

hem ; they

a box at

some sense

lieve I get

m Stuart's

any of the

thorns,

ville, Ont.

HORNS

pped short-

THORNS.

mong them are sure to win.

and Chats-

nthus, Orimson nies, For sale,

Heydon Duke,

Able and Imp.

P. O. & Sta.

PORTED AND

inest quality

Clinton, Ont.

ering 12 heifers ering 12 neuers
2 years of age,
6 to 10 months
m extra choice
a-a low down,
7 orkshires.

ORNS.

ERMOTT,

ings P. O.,

orgus Station.

RON\_ A choice

heifers, Scotch of the bacon

reasonable.

Samson, Ont.

AKSHIRES.

several excellent

heifers. herkof rare breeding
times. Write us
F. MARTIN-

York, Ont. 0

& O. P. R., Elora.

SHREA Ready

neifers, by Royal oyal Archer (imp.)

ck show excellent

Rerk hire brars great sweepstakes ption and prices.

SON,

will make she

BINS.

oes; reds and onthe old.

ey.

AL.

ity.

## GOSSIP.

\$4,000 FOR A HOLSTEIN CALF. The nine-weeks-old bull calf of the noted Holstein cow, Sadie Vale Concordia, was purchased by Messrs Henry Stevens & Son, Lacona, N. Y., at the handsome price of \$4,000. Sadie Vale Concordia completed her sixty-day test on March 27th, 1902, scoring 220 lbs. of butter in that time. She made 80 lbs. 10.2 ounces butter in seven days : 128 lbs. 9.5 ozs. in thirty days, and 220 lbs. in sixty days, says the N. Y.. Farmer.

DRYDEN-MILLER.

The fraternity of Canadian stockmen will join with the "Farmer's Advocate" in tendering congratulations to Mr. William A. Dryden, of Brooklin, Ontario, only son of Hon, John Dryden, Minister of Agriculture, on the event of his marriage at Sittyton Lodge, Pickering Township, on December 30th, to Miss Margaret Miller, daughter of Mrs. William M. Miller, and granddaughter of John Miller, Esq., of "Thistle Ha," and of the late James Ironside Davidson, ex-M. P. This will be recognized as an exceedingly interesting combination, and a host of admiring friends will join in wishing the popular young couple a happy and prosperous experience in their matrimonial alliance.

SPASS OF THE GLOTTIS.

REQUENT inquiries have been made concerning a disease in pigs characterized by spasms or fits. The attacks almost always occur in winter, when the weather is severe. Animal shows no symptoms when coming from the sleeping pen until it attempts to take food, when it will be seized suddenly, will raise its. nose and gasp for breath, soon fall over

and struggle for a moment or two,

when the seizures will abate, animal will

get up and possibly appear all right. Cause. - Occasionally the first attack will prove fatal, although this is not the rule. Attacks will recur every day, or it may happen every time the animal attempts to take cold food, especially The attacks come on most frequently in pigs or hogs that have warm quarters, especially those that are allowed to burrow in manure piles or straw that becomes heated. When they come into the cold air, sudden change induces attacks, especially when taking cold drink.

Treatment. - Treatment that has given the best results is to avoid the conditions that produce the difficulty. Hogs should not be housed in toc warm sheds, especially if fed in a cold place. Do not give access to the manure pile, where they will burrow into the heated, half decomposed straw or become piled up and overheated.

It is also of great advantage to warm the feed, where this is practicable, and anti-spasmodics should also be employed, such as from ten drops to half dram doses of fluid extract of hyoscyamus, according to size of animal; cr ten or fifteen grains of bromide of potash should be given three times a day.

The rugged health that tonic doses of Dr. Hess Stock Food induces will give a hog the vital power necessary to resist these attacks. This wonderful reconstructive is the result of a lifetime of study and experiment by Dr. Hess (M.D., D. V. S.)-graduate of both medical and veterinary colleges- whose methods and works are recognized everywhere as authoritative.

Dr. Hess Stock Food is the scientific compound, sold on a written guarantee, 100 pounds, \$7.00; smaller quantities at a slight advance. Fed in small dose. For every disease and condition for which Dr. Hess Stock Food is not recommended, the little yellow card in every package entitles you to a letter of advice and special prescription from Dr. Hess.

For a little information, Dr. Hess' great stock book, the only complete treatise on live stock and their diseases, will be mailed to you free, prepaid. Write Dr. Hess & Clark, Ashland, Ohio, U. S. A., state what stock you have, how many head of each; what stock Toronto, pass farm. food you have fed; also mention this paper. -om

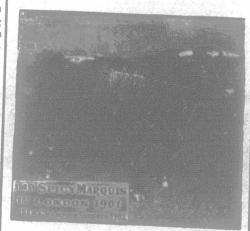
Day's Aromatic Stock Food

Saves feed by assisting stock to digest their food. A small

dose in the usual food twice each day It contains no drugs; purely aromatic. 3 LBS. 30c. 36 LBS. \$3.10.

Ask your dealer or write us. The Day's Stock Food Co., STATION C, TORONTO.

TROUT CREEK SHORTHORNS



Leven Imported Bulls for Sale.

IAS. SMITH,

S. SMITH,
Manager,
Millgrove, Ont,
Millgrove,

SHORTHORNS FOR SALE Four bulls, that challenge comparison, sired by the champion of champions, Spicy Marquis (imp.). This is a rare chance. Brave Ythan at head of herd. JAMES GIBB, Brooksdale, Ont.

OAK LANE STOCK FARM Shorthorns Cotswolds Yorkshires and Barred Rock Fowls. Imported and Canadian - bred Shorthorns. Open to take orders for N.-W. trade. Write for prices. Satisfaction guaranteed. GOODFELLOW BROS., MACVILLE.

BREEDERS OF

GRUICKSHANK SHORTHORNS AND SHROPSHIRE SHEEP.



Catalogue of twelve young bulls of choicest breeding and splendid quality sent on applica-Your choice of 25 BEAUTIFUL YEARLING RAMS at reasonable prices. Also a FEW SELECT EWES. Station and Post Office, Brooklin, Ont.

R. & S. NICHOLSON Sylvan P. O. Parkhill Station, Ont. Importers and breeders of

SHORTHORNS

Have for sale : 13 IMPORTED HEIFERS, 30 HEIFERS (choice),

Safe in calf to Imp. Spicy Count. Home-bred herd composed of Nonparells, Minas, Clementinas, Oruickshank Lovelys, Shethin Rosemarys, A. M. Gordon's Estelles, Miss Symes, etc.

# 16

FOR SALE.

Bred in the herd that produced Topsman and Moneyfuffel Lad; sweepstakes winners at Toronto, all ages competing; also Lord Stanley Junior, champion over all beef breeds, and heading three first-prize herds at World's Fair, Chicage.

Yonge St. Trolley Cars from Union Station,

J. & W. RUSSELL, RICHMOND HILL, ONTARIO.

# TRADE TOPICS.

MISSING.—George Faulkner, 28 Victoria St., Toronto, Ont., writes: "My son, Lloyd, has not been heard of since he left Winnipeg last June to learn the cattle-raising business. He is only sixteen years old and of fair complexion, and stout build." Any notice of his whereabouts will be gladly received.

A REMARKABLE INCUBATOR OF-FER.-On another page will be found the announcement of the M. Campbell Fanning Mill Co., Limited, of Chatham, Ont., and Detroit, Mich., setting forth their method of selling the Chatham incubators and brooders. Such a liberal plan of sale coming from a company whose financial strength is so unquestioned deserves the attention of poultryraisers. That they are willing to make such a generous offer shows what confidence they have in their incubators and brooders. Write the M. Campbell Fanning Mill Co., Limited, and get full particulars of their offer; when doing so mention this paper.

HOPE, GRAVELEY & CO., of Vancouver, the managers of the Settlers' Association, report that the wet harvest on the coast of British Columbia was not nearly so bad as at first reported. Almost all the grain was threshed, and turned out much better than was expected; in fact, almost the only loss was incurred by those farmers whose crop was put in late, and who threshed from the stock instead of stacking. There was no loss whatever among farmers who threshed from the barn. The grain and hay crops were exceptionally heavy throughout the Lower Fraser Valley anything like a wet harvest is so very unusual that more was made of it than its importance warranted. Timothy hay is now selling, baled, at \$14 per ton; and oats at \$28 per ton; potatoes, \$12 per ton. The winter is exception-ally mild, and everything, so far, points to an early spring. As this firm have a very long and wide experience in agricultural matters, intending settlers would do well to make their office the first point of call. In a later message from Chilliwack, it is stated that many varieties of spring flowers are out, and the temperature, when the message was sent, was 63° in the shade.

# GOSSIP.

The thirteenth annual meeting of the Dorset Horn Sheep Breeders' Association of America will be held at the Monongahela House, Pittsburg, Pa., on Tuesday, January 12th, 1904, at ten o'clock. a. m.-M. A. Cooper, Sec'y.

Colwill Bros., Newcastle, Ont., breeders of Shorthorn cattle and Tamworth hogs, ordering change of advertisement, write: "We are now offering very choice young sows, due to farrow in March, bred to a splendid boar. Size, quality and type are contained in these. The Shorthorns, bulls and heifers, are the get of Brave Baron 23257, son of imported Indian Chief, that weighed 2,500 lbs. last September. Our Tamworths won at Toronto last fall five firsts, two seconds, six thirds, a sweepstakes and silver medal."

The credit auction sale advertised to take place on January 21st, of 35 registered Shorthorn cattle belonging to Mr. C. N. Blanshard, Appleby, Ont., affords an opportunity to secure useful animals of good milking and beefing strains that are soundly bred on approved lines. Scotch-bred bulls of an excellent class having been used in the herd for many years, fixing the type and ensuring robust constitution. The sale will be held on the day following the combination sale at Hamilton. The farm is only ten miles from Hamilton, and two and a half miles from Burlington Junction, which is only a short run on the Radial line from Hamilton, and is a station on the G. T. R., on both the Hamilton and Noth-western branch and on the Tcronto and Hamilton division. The C. P. R. also runs between Toronto and Hamilton, but does not stop at Burlington. Passengers by this road should go through to Hamilton and take the Radial line back to Burlington.

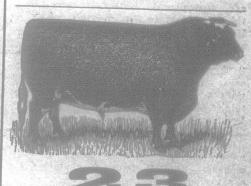
Four Carriage horses are also included in the sale, sired by Imp. Terrington. Two of them having been first-prize winners at Toronto. These should be worth looking after.

Don't Chide the hildren.

Don's scold the little ones if the bed is wet in the morning. It isn't the child's fault. It is suffering from a weak-ness of the kidneys and bladder, and weak kidneys need strengthening—that's all. You can't afford to risk delay. Neglect may entail a lifetime of suffering and misery.

strengthen the kidneys and bladder, then all trouble is at an end. Mrs. E. Kidner, a London, One., mother,

living at 499 Gray St., says: "My little daughter, six years old, has had weak kidneys since birth. Last February I got a box of Doan's Kidney Pille at Strong's drug store. Since taking them she has had no more kidney trouble of any kind. I gladly make this statement because of the benefit my child has received from this medicine."



Some imp. and some from imp. cows, and sired by imp. bulls. Also cows and heifers. New importation comes home Dec. 10th.

Arthur Johnston, Greenwood, Ont.



For eale at reasonable prices—Five imported bulls, nearly all roans. Twelve imported cows and helfers. Also a number of nice Canadian-bred bulls, nows and helfers, in onit or with onives at foot.

E. J. DAVIS, Woodstock, Ont.
C. P. R. and G. T. R.

STRATHROY STATION & P. O. Shorthorns and Glydesdales 58 Shortherns to select from. Herd bulls (imp. Diamond Jubiles =28861 = and Double Gold = 57854 =. Young bulls, cows and heiters for select all times. Also one (imp.) stallion and two broad

Shorthorn Gattle and Lincoln Sheep.



Industrial Behinder three years in moon to the year of the total and the total

T. E. ROBSON, ILDERTON, DNT.

imported Shorthorns Imp. Roll Fridor imported and home-bred Shorthorns of best scotch families, for sale, both sexes, at reasonable prices; also Oxford Down sheep. John McFarlane, Dutton, Ont., P. O. and Sta., Box 41. om

## GOSSIP.

The Thoroughbred stud belonging to Mr. Joseph Seagram, of Waterloo, Ont., has been recently reinforced by the importation of a select contingent from the Old Country. The lot consists of the stallion, Persistence, and three mares. Permistence is a three-year-old, bred by His Majesty, sired by his famous horse, Persimmon, and out of a mare called Londamia; and the price Mr. Seagram gave for the horse was \$5,000, quite the longest figure ever paid for a running horse for Canada.

Probably a comparatively small proportion of people know of the remedial action of the common apple seed in cases where one gets a foreign substance in the eye. Almost everybody has used or heard of "eye stones." The seed of the apple acts in precisely the same Introduce it under the lid and it will travel about until it has found the offending cinder or other harmful object. It gives no discomfort, and will some times stay in the eye twenty-four hours before it has fully done its work .- [Rehoboth Herald.

A "Cockney" farmer is a failure, according to a decision reached by a London Board of Guardians after an experiment just made. Ten able-bodied inmates of a workhouse, clad in appropriate agricultural costumes, were sent, the other day, to Gen. Booth's colony at Hadley Farm. The next morning seven indignant men from Poplar walked into Castle Inn. They called for beer. "They want us to plow and 'arrer," said one, in an outraged tone, "and want to make countrymen o' us. Nice thing, ain't it?" All walked back to London.

In some tropical countries the natives have unique ways of trapping the monkey. One of them, as explained by a traveller, is this:

The hunters walk about in short boots in sight of the monkeys. Then they take the boots off, place some gum in the bottoms and leave them on the ground, withdrawing to a great distance them-

selves. Presently the monkeys come down from the trees, try on the boots, and when the hunters come after them, the boots stick to them. They are unable to climb and are thus captured.

"Father," asked Tommy the other day, "why is it that the boy is said to be the father of the man?

Mr. Tompkins had never given this subject any thought and was hardly prepared to answer off-hand.

"Why-why," he said, stumblingly, "It's so because it is, I suppose." "Well, pop, since I'm your father, I'm going to give you a ticket for the

and half a dollar besides. I always said that if I was a father I wouldn't be so stingy as the rest of them are. Go in, pop, and have a good time while you're young. I never had any chance myself!"

Mr. Tompkins gazed in blank amazement at Tommy. Slowly the significance of the hint dawned upon him. Producing a silver dollar, he said:

"Take it, Thomas. When you really do become a father, I hope it won't be your misfortune to have a son who is smarter than yourself."

This fish-story is told by ex-President Cleveland about a shopkeeper in a town visited by the ex-President last summer on a fishing excursion.

For the purpose of advertising fishing rods, which he had for sale, the shopkeeper had a large rod hanging outside his shop, with an artificial fish at the end of it. Late one night a townsman who had been dining a bit too well happened to see this fish. He looked at it, then went cautiously to the door and knocked gently.

"Who's there?" demanded the shopkeeper, from an upper window.

"Sh-h! Don't make a ncise, but come down as quietly as you can," was the reply.

Thinking something serious was the matter, the man dressed and stole, down-

matter?" he in-Non. quired.

"Hist Pay you line in quick; you've got a bite " gamonished the bibulcus one.

International Stock Food Co., DRAR SIRS:—I have been feeding "International Stock Food" for over a year. It is the best in the market without exception. There have been hundreds of hogs shot and burned by the inspectors because they had the cholers and hundreds have died all around me but I have never lost any because I am feeding "International Stock Food." I have been raising hogs over thirty years and "International Stock Food" is the best thing I have

ever used for fattening or preventing disease.
Yours truly, A. J. TENNER Breeder of Berkshire and Poland-China Hogs. We Have Hundrede of Thousands of Similar Testimonials and Will Pay You \$1000 Cash to Prove That
They are Hot Gennine and Unselletted. The

They are list Genuine and Unsellated. The World Indicated 12 miles from Minneapolis and contains 650 acres. We feed "International Stock Food" every day to all our Young Charlest Synthesis, Day Parce 1364 and Director 2015; to our Young Synthesis, Based Maria, Cours, Wenn Heases, Carria and Hoss. "Hitterflat 1900 as a High-Class vegetable, FOOD" and FEEDS for ONE CENT 2015 is Frenared from Roots, Herbs, Seeds and Barks and Wen the Highest Medal at Parls Exposition in 1900 as a High-Class vegetable, medicinal preparation to be feed to stock in small amounts as an addition to the regular feed. It is a Great Aid in Growing or Fattening stock because it increases their medicinal preparation to be feed to stock in small amounts as an addition from the grain esten. We positively guarantee that its use will make you extra money appetite and Aids Digestion and Assimilation so that each animal obtains more nutrition from the grain esten. We positively guarantee that its use will make you extra money appetite and Aids Digestion and Assimilation so that each animal obtains more nutrition from the grain esten. We positively guarantee that its use will make you extra money appetite and Aids Digestion and Assimilation so that each animal obtains more nutrition from the grain esten. We positively guarantee that its use will make you carra money appetite average and fatternational for with your Own food at every meal. Salt is a stomach tonic and worm over the usual Plan of Growing and Fattering stock. "International ingredients almost with every mouthful of medicines prover that these feed fedicines promote health and strength for people and improve their digestion. "International Block Food" can be decided as necessary an addition to the require fed of your stock if you desire to keep them in the best possible condition. "International medicinal ingredients that are just as any enternational and the prover that the self-decided promote health and strength for people and improve their digestion. "International Stock Food" in s EEDS FOR ONE CENT

BOOK CONTAINS 183 LARGE ENGRAVINGS OF HORSES, CATTLE, SHEEP, POULTRY, ETC.

The Cover of this Book is a Beautiful Live Stock Picture and Frinted in Six Brilliant Colors, and Without Any Advertising on it.
Sixe of Book is 615 by 915 inches. It cost as \$2000 to have our Arists and Engravers make these Engravings, which are the finest engravings of Horses, Cattle, Sheep, Hogs and Foultry that you have over seen. They are all made from actual photographs and engravings of Horses, Cattle, Sheep, Hogs and Foultry that you have over seen. They are all made from actual photographs and engravings of a place in any library. It also gives Description, History and Illustrations of the Different Breeds of Horses, Cattle, Sheep, Goata, Hogs and Foultry. It contains Life Engravings of many very noted Animals. So It Contains a Finely Illustrated Sheep, Goata, Hogs and Foultry. It contains Life Engravings of many very noted Animals. So It Contains a Finely Illustrated Sheep, Goata, Hogs and Foultry. It contains Life Engravings of many very noted Animals. So It Contains a Finely Illustrated Sheep, Goata, Hogs and Foultry. It contains Life Engravings of many very noted Animals. So It Contains a Finely Illustrated Sheep, Goata, Hogs and Foultry. It contains Life Engravings of many very noted Animals. So It Contains a Finely Illustrated Sheep, Goata, Hogs and Foultry. It contains Life Engravings of many very noted Animals. So It Contains a Finely Illustrated Sheep, Goata, Hogs and Foultry Life Sheep, Goata, Hogs and Foultry Life Sheep, Hogs and Hogs and

WE WILL PAY YOU # \$10.00 CASH THE BOOK IS NOT AS DESCRIBED WE WILL HAIL ORE COPT OF THIS BOOK TO YOU ABSOLUTELY FREE, With Postage Prepaid, If You Will Write Us At Once,

Letter or Postal card, and ANSWER THESE TWO QUESTIONS:

Address At Once.... INTERNATIONAL STOCK FOOD CO., TORONTO, CANADA.

Largest Stock Food Footory in the World. Capital Paid in, 62,000,000.

TORONTO, CANADA.

Largest Stock Food Footory in the World. Capital Paid in, 62,000,000.

TORONTO, CANADA.



Guarantee



8

0

R

T

H

0

R

N

S

WE WILL PAY YOU \$1,000 IN CASH

Ontario.

8

H

0

R

T

H

0

R

N

8

If We Ever Refuse to Refund Your Honey on our "Cash Guarantee" that is printed on every label of each of these preparations. They are sold by 60,000 dealers "finternational Poultry Food" (A remarkable egg producer, and insures good health and rapid growth for all kinds of poultry). "International Louse Riller." "international Poultry Food" (A remarkable egg producer, and insures good health and rapid growth for all kinds of poultry). "International House Cure." "International Calle Cure." "International Harness Soap." "international Foot Remedy." "International House Cure." "International House Cure." "International Calle Cure." "International House on the Cure Cure." "International House on the Cure Cure." "International House Officer (A sure disinfectant and germicide). "International Calle Cure." "International House on the Cure Cure." "International House Cure." "International Hous

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 om

W. C. EDWARDS & CO.,

Rockland,

OUR PRESENT OFFERING

# BULLS

Individuality, Imported Breeding, and Quality, Home bred.

and reasonable prices. Catalogue free.

H. CARGILL & SON JNO. CLANCY, om Cargill, Ont., Can. Manager.

# Shorthorn Cattle, Lincoln Sheep

amp, Frime Minister at head of herd. Imp. Olippers, Miss Ramsdens, and other Scotch families. Lincolns won more than half the money and first for fook at the Person can; International, Chicago, 1901 and 1902.

J. T. QIBSON, om DENFIELD, ONT.

# MAPLE LODGE STOCK FARM, 1854

Am offering a very superior lot of Shorthorn Bulls and Heifers as well as something VERY attractive in Leicesters.

Choice ewes got by imported "Stanley" and bred to imported "Winchester." Excellent type and quality. OM A. W. SMITH, MAPLE LODGE, ONT.

# SHORTHORNS.

THORNHILL HERD, BSTARLISHED 27 YEARS.

Imp. Royal Member and Sailor Champion now at head 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.

# Hawthorn Herd of DEEP-MILKING SHORTHORNS. FOR SALE: Five young bulls, also a few females, by Scotch sires. Good ones. om

Wm. Grainger & Son, Londesboro, Ont.

We are 18 BULLS offering from 4 to 10 months old, sired by imported Diamond Jubilee = 28861 =. Also a few females, all ages, of good Scotch breeding.

FITZGERALD BROS., Wount St. Louis, Ont. Elmvale Station, G. T. R.; Hilledale Telegraph Office.

Greengrove Shorthorns Number 35 head of choice Scotch families. For sale: Several young bulls, by Wanderer's Last, Imp. Fits Stephen and Free booter. Females of all ages.

Om. Goring P. O., Markdale Station.

# Shorthorns, Clydesdales, YORKSHIRES.

I offer for sale a young red bull calf by Republican (Imp), out of Nonpareil 34th (Imp.)—a gor done, Also young Yorkshires and Clydesdales, all ages. Also Count Amaranth at a bargain, if taken soon.

A. E. HOSKIN, SOBOURG STATES.

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

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 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.

**Special Notice** for Immediate Sale!

Two Ayrshires, One Guernsey, registered stock bulls, quality and breeding of the best; prices right. Also Shropshire ram and ewe lambs, from selected dams, imported sire, first quality, woolled correctly

U.N. GREENSHIELDS. PROP. DANVILLE, P. Q

D 1866

BT

een

the

my

ogs

ave

gs.

FTC.

Guarantee

In Sheep

erd. Imp. her Scotch

an half the Pan-Ameri-and 1902.

ELD, ONT.

ARM, 1854

Heifers

ype and quality.

ODGE, ONT.

RNS.

straight Scotch kind. Present

ta. and P. O.

EP-MILKING

RTHORNS.

lesboro. Ont.

LLS

ported Diamond sales, all ages, of

t. Louis, Ont.

Telegray h Office.

Jumber 35 head

of choice Scotch
of choice Scotch
of bulls, by Wanand Free booter.
MILLSON,
Edale Station.

lesdales,

alf by Republican
—a go'd one. Also
es, all ages. Also

VALE FARM, O STA. & P.O.

3.

s, also a few oner. om

27 YEARS.

r lot of

ractive in

SHORTHORN BULLS FOR SALE. Some ready for service, young, and bred from imported and Canadian stock; also a number of heifers and cows, Dorset sheep and York-hire swine for sale. D. BARTLETT & SONS, Smithville P. O. and Station, Ont.

# SHORTHORNS (Imp.)

We have on hand for sale 3 yearling bulls (imported in dam), 7 three-year-old helfers (imported in dam) due to calve during next 3 months. These young animals are of exceptional breeding and individuality. Prices reasonable. Write for parameters of the parameters

# EDWARD ROBINSON, Markham P.O. & Sta.

# SHORTHORNS

Importer and breeder of choice Shorthorns. Scottish Hero 156726 at the head of herd. om JAS. A. OBERAB, Shakespeare, Out.

# SHORTHORNS FOR

I am offering for the next month, at exceptionally low prices, several young bulls, he fers and bred helfers of choice Scotch breeding and good individuality. These are rare bargains. Write for my prices, I feel sure they will tempt you. Address El. SMITH.
P. O. and Sta., G.T.R. Exeter, Ontarlo

Exeter, Ontario GRANDVIEW SHORTHORNS For Sale.—1 bull, by Royal Beau; also a few females, Herd headed by the Marr Missle bull, Marengo =31055=.

J. H. BLACK & SON., ALLANFORD P. O. SHORTHORMS. Lady Fannys and Beautys for sale 7 heifers, from 1 to 3 years old, some of them in call to Prince Eclipse 33048.

James Caskey, Tiverton P.O., Kincardine Sta

Present of Shorthorns: Our stock bull, fering in Shorthorns: 23:565 =, a grand stock-getter and sure, 3 years old. Also 1 bull, 13 months; heffers and cows. Shrop-shires, all ages and sex. BELL BROS.,Bradford,Ont.

# SHORTHORNS.

Four Bulls, nine to fifteen months old; four heifers, two years old. A number of cows, also in calf to Royal Prince=31241=, by imp.

H. K. FAIRBAIRN, Thedford P.O., Telegraph and G.T.R. station.



Shorthorns, Cotswolds, Berkshires FOR SALE, Seven bull calves from 1 to 8 mor the old; a few young cows with heifer calves at foot; a choice lot of yearling ewes, ram lambs and ewe lambs; young pigs of the long bacon type, from 6 weeke to 2 months old. F. BONNYCASTLE & SON, Campbellford P. O., Ontario.

SHORTHORN CATTLE and Oxford Down sheep, head of herd. Present offering: Young bulls and heiters from imported and home-bred cews; also a choice lot of young rams and ewes from imported sire. JAMES TOLTON & SON, Walkerton, Ont. Farm 31 miles west of Walkerton Station, om

Maple City Jerseys FOR SALE: 10 head of cows and heifers 10. and 2 young bulls; all bred from prizewinning and high-testing cows. W. W. EVERITT, Dun-edin Park Farm, Chatham, Ont Box 552

JERSEYS 60 FIRST PRIZES IN 1903.

The Brumpton Jersey Herd was exhibited at six fairs in 1903, including Toronto, Winnipeg, London and Ottawa. At these fairs there was a total of 73 first prizes and championships offered, and selections from the Brampton Herd were successful in winning 60 of these, a record never equalled by any Jersey herd. We after now 15 bulls from 1 to 18 months old; 1 3-yr-old bull, and females all ages. If you are wanting Jerseys it will pay you to inspect our stock, or write for descriptions.

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

HOLSTEIN BULLS MAPLE GROVE offers a few very choice bulls, at right prices to quick buyers. For par-ticulars, address H. BOLLERT, Cassel, Ont. o

# Lyndale Holsteins

Won gold medal on herd at Ottawa, 1902 and 1903, and sweepstakes for females at Toronto and Ottawa, 1903. Present offering: Five young bulls from 7 months to 16 months old; 6 heifers from 2 to 3 years old, bred to Bery. Wayne Paul Concordia. BROWN BROS., Lyn, Ont.

# HOLSTEINS AND TAMWORTHS.

Present offerings: A choice lot of young sows, bred and ready to breed; a few boars, four months old, and a fine lot of young pigs ready to wean. Also one bull calf two months old. Write for prices, or call and see the stock. Enquiries promptly answered.

BERTRAM HOSKIN, The Gully P. O. Grafton station, G. T. R.

HOLSTEINS. Thirty head to offer. Bulls from I to 10 months old, heifer calves, yearlings, 2-year-olds and cows. Breeding the best; very choice, including Toronto winners. A choice lot of Tamworths on hand. Come and see or write. Visitors welcome. A. C. HALLMAN, Waterloo Co.

80 head to select from. Young bulls whose dams have official weekly records of from 17 to 21 lbs. of butter, sired by Victor De Kol Pietertje and Johanna Rue 4th Lad. Write for prices.

Matt Richardson & Son, Caledonia P.O. and Station.

HOLSTEINS, TAMWORTHS, COTSWOLDS Present offering: Bull calf, 8 mos., won 4 first prizes.
Litter 3-months-old pigs, and younger ones; choice animals. Ram and ewe lambs and two 2-shear rams; perfect covering.

Hilton, Ont., Brighton Sta., G. T. R.

# **Brookbank Holsteins**

16 to 25 lbs, of butter in 7 days' official test are the records of this herd of Holstein cows. Heifers of cause are in the Advanced Registry, with large official butter vaccaria. official butter records.

GEO. RICE, Currie's Crossing, Ontari

Ridgedale Farm Hoisteins Bull and heifer calves, bred from rich milking strains, on hand for sale. Priceright. Write for what you want. OR. W. WALNER, Utica P. O., Ontario. Shipping stations: Port Perry, G. T. R., and Myrtle, C. P. R. Ontario County.

4 HOLSTEIN BULLS 4 For S.LE: From 4 to 7 months old, having sir s is their pedigrees from such strains as Inka, Netherland, Royal Aagrie, and Tritonia Prince, and out of imported females that have proven their worth at the pail. THOS. B. CARLAW & SON, om

STOCKWOOD AYRSHIRES.
Our herd now numbers 40 head of all ages, with milk records from 40 lbs. a day up. Stock of both excess for sale Bulls a specialty.
WATT BROS., Allan's Corners P. O. St. Louis Sta., near Howick, Que.

Menie Stock Farm AYBBHIRE bulls and helfer calves, from 2 to 9 months old. Also cows as helfers all ages. Write WM. STEWART & SON Omenie, Ont.

SPRING BROOK AYRSHIRES are bred and comprise animals with a large milk record and high test. COMRADE'S LAST OF GLENORA 1347 now heads the herd. Several Bull Calves for sale. Prices right. W. F. STEPHEN. Spring Brook Farm. Trout River, Que. Carr's Crossing, G.T.R., I mile. Huntingdon, N.Y.C., 5 miles.

DAVID A. McFARLANE. Breeder of high-class KELSO, P. Q. AYRSHIRES.

# Foung stock for sale from imported and home-bre foundation. Prices reasonable.



YORKSHIRES YORKSHIRES in pairs not akin now ready for shipment. SIX AYRSHIRE BULLS

deep-milking dams, and sired by Comrade's Heir of Glenora (11996). Cheap if sold before

AT SEND FOR CATALOGUE, TA

J. G. CLARK, Woodroffe D. and S. Farm. Ottawa.

FOR SALE: High-class HOME-BRED 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. wylle, - HOWICK. QUEBRO.

For Sale at SPRING BURN STOCK FARM 12 Ayrshire bulls from 2 to 15 months old, females any age; 4 Oxford Down rams; 20 Berkshire pizs and some fine Buff Orpington cockerels. Prices reasonable. H. J. Whitteker & Sons, - Borth Williamsburg, Ont.

IMPORTED AND HOME-BRED AYRSHIRES

The average butter fat test of this herd is 4.8. A few young bulls and females, all ages, FOR SALE.

Robt. Hunter & Sons, Maxville, Ont. Farm one mile from Maxville station on C.A.R. AYRSHIRE CATTLE

SHROPSHIRE SMEEP, B. P. ROOK FOWL and 20 YOUNG LARGE ENGLISH BERKSHIRES FOR SALE. J. YUILL & SONS. o Carleton Place, Ont.

Maple Cliff Dairy and Stock Farm BREEDERS OF

AYRSHIRE CATTLE BERKSHIRE and TAMWORTH PIGS. Special offer this month of TWENTY-FIVE YOUNG BOARS, fit for fall service. They are good ones. ALLMAN,
Breslau, Ont.

Farm adjoins Central R. REID & CO.,
Experimental Farm. o Hintonburg, Ont.

Messrs. D. Bartlett & Sons, breeders of Shorthern cattle, Dorset Horn sheep and Yorkshire hogs, write: "Our cattle are all in good preeding condition, most of the cows having blacky, heavyset, mossy-coated, roan calves by their side of the right type. Along with our aged herd bull, we are using a first-class imported bull. Our Dorset ewes have some extra good young lambs by their side, and they are doing well .. Our flock ram is Tranquility 978. Considered one of the best of the breed in Canada. We are offering some good young Yorkshires of the bacon type.

Attention is directed to the new advertisement in this issue of Shorthorn cattle and Southdown sheep for sale by Huntlywood Farm, at Point Claire, Quebec. The farm, belonging to Hon. Geo. A. Drummond, of which Mr. Wm. H. Gibson, a first-class judge and judicious feeder, is manager, is situated close to Beaconsfield stations on C. P. R. and G. T. R., some fifteen miles west of Montreal. In the offering at present are three extra good young Scotch-bred bulls, two of which are of the favorite Broadhooks family and one a Sittyton Secret. The herd bull in service is Imp. Cicely's Pride =40369=, by Pride of Collynie, dam Cicely, by Sittyton Stamp. Mr. Gibson writes that the Huntlywood herd and flock are in capital shape and never looked better than at present. These young bulls should be well worth locking after, and parties requiring such will do well to write Mr. Gibson for particulars.

# HOW THE MINK HUNTS.

If you will follow a mink's tracks in the snow any winter day it will usually lead you before long to the mute story of a tragedy-just some trampled snow and a red stain. The whole method of the mink's hunting is told by the snow. We see how it follows a rabbit, taking every precaution not to betray its presence while the wretched creature feeds, for then it is alert. How it follows tunny to where it sleeps beneath a log, an upturned root or the snow-covered top of a fallen tree, and then stealthily creeps on the unsuspecting prey. How sometimes the rustling of a dead leaf warns the rabbit, who leaps forward, perhaps just in time to avoid the furious onslaught of the mink; though more often too late, and the red stain tells us that the rabbit has been eaten where it expected to sleep.—Country Life in America.

THE HAMILTON SALE. Stockmen will bear in mind the great

combination auction sale of 64 head of imported and home-bred Shorthorn cattle, to take place at Hamilton, Ont., on January 20th. Forty head of these are from the noted herds of H. Cargill & Son and W. D. Flatt, about two-thirds of which are imported. The balance are from the well-known herds of Capt. Robson, Robert Miller, J. M. Gardhouse, Geo. Amos and Allin Bros, quite a number of which are imported, and all bred from first-class Scotch and Scotch-topped families. Each of these contributions have been referred to in former issues of the "Advocate," except that of Capt. Robson, which includes a red yearling heifer of the favorite Cruickshank Duchess of Gloster family, by Golden Stamp, a Sittyton Brawith Bud bull. This heifer won second prize at Western Fair, London, 1903. A roan four-year-old cow of the excellent Cruickshank Village trite, is Village Beauty, by Village Squire, by the champion, Abbotsford. A red four-year-old cow of choice breeding, with a red c. c. at foot, is Warden Blossom of the popular Orange Blossom tribe, and got by Knight of Weldon, by Knight of the Thistle. This will undoubtedly be one of the most important Shorthorn sales held in Canada in recent years, and should attract breeders and farmers from far and near. The cattle to be sold are of the class that is needed and that is in demand. It is well worth all it costs to attend such a sale, if only for its educational value, and the opportunity of meeting stockmen from all parts of the country and forming new acquaintances, and even if one be not a buyer, is bound to be helpful to breeders and farmers, old and young. Let there be a grand rally of progressive people at the Hamilton sale on January 20th.

The Empire Cream Sepa rator turns more easily, is more easily cleaned and kept clean, is more satisfactory in every way than any other cream separator made, because it is simplest in construction and has fewest parts. It will pay you to investigate. Book free. Empire Cream Separator Co.

28 Wellington &t. W. TORONSO. CANADA.

THE Empire Way MAKES COWS PAY

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 are good, straight-lined lot, and will be sold right of J.W. LOGAN, Alian's Corners P.O., Howick Sta., Que.

# "THE HUME FARM."

POR SALE: The 2nd-prize under-1-year built of Toronto, a full brother, dropped Aug. 28, 1903, and others. Two lots of Yorkshires, 6 and 2 months old. For anything in Ayrshires or Yorkshires, write us, ALEX, HUME 2 00,

AYRSHIRES for sale, all ages. Some extra fine bulls, coming one year old, and heifers of all ages. Also my stock bull, Sir Donald of Elm Shade, just 3 years old.

DONALD CUMBING, Lancaster, Ont.

DAVID LEITCH, CORNWALL,

BREEDER OF AYRSHIRE CATTLE. A few choice bulls fit for service, and bull calves and heifers, sired by Rossland of St. Anne —8901—, and from deep milkers, with good udders and teats. Cornwall 5 miles, G. T. R. and O. N. Y.

Ayrshires for Sale I have a choice lot of spring calves, of both sexes, sired by Minto. F. W. TAYLOR, o Wellman's Cor. P. O., Hoard's Sta., Ont.

AYRSHIRE BULLS We combine beauty with utility; My here has won over weven three bronze is edge, in 8 years. For sale: Seven young bulls from 6 months to 1 years old sized by Royal Star of Ste. Annes (7916), winner of list at Toronto, let and sweepstake at 1-mdon, at 2 years old, and from dams with milk records from 50 to 50 la, per day. Price from 35 to 300 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. A low deep-milking cown from \$65 to \$00 each. Toulouse goese, Junuties, \$6 pair. Write WILLIAM THORN Trout Rui Stock Farm, Lynedooh, Nortolk Co., Out.

HIGH-OLASS AVESHIRE CATTLE
TO RAIR: Both sores; bulls and belles calve from
\$ to \$ name of old; cover and belless all uses. Freuous priswinness beed from this beed facilities
tom Brown and White Flore, sweet this prince of the second of t

# Tredinnock Ayrshires.

Imported buils at head of herd: Glencairn and Howie's Firmway, and Lord Dudley. Forty imported females, selected from leading Scotch herds, and their produce from above-named buils. Size combined with quality and style, well-formed udders, good-sized tests, and capacity for large milk 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. B. & C. P. B., 20 miles west of Montreal, om

AYRSHIRE Bulle. Two fit for service, two March calves, and a few August, 1903, calves. Neidpath Farm, on Stration Ont.

# Dorset Horn Sheep

THE largest flock in America. The most celebrated prizewinners at the Columbian Exhibitions and Canadian exhibitions. Contains more Royal winners than any other. Awarded 5 out of 8 first prines at Toronto, London and Ottawa in 1800. Plock of 300. Stock for sale always on hand.

John A. McGillivray, Uxbridge, Ontario,

EUROPHAN ADVERTISEMENTS.

Secretary of the Rational Sheep Brood-

Secretary of the Kent or Romney March Sheep Breeders' Association, and late Secretary of the Southdown Sheep Society.

Pedigree Live Stock Agent, Experter and hipper. All kinds of registered at ock examply selected and experted on com-ission; quotations given, and all enquiries

Address: MOWBRAY HOUSE. NORPOLK ST .. LONDON, W. C., ENGLAND.

Cables-Sheepoote, London.

# SUSSEX CATTLE

The brood for hardiness and early maturity. The highest average daily gain, alive, 2 lbs. 8.34 ozs., and also the highest percentage, 68.02, of carcast to live weight of any animal, for its age, at Smithfield Show, was given by Mr. Gerald Warde's first-prize Sussex steer at the age of 681 days. Leading honors won at all the principal shows. Selections always on sale.

6. Warde, West Farleigh, Kent, England. SUNNYLEA FARM.

# RIBY HERD and FLOCK

OF SHORTHORN CATTLE AND

LINCOLN LONG-WOOL SHEEP HENRY DUDDING.

Riby Grove, Great Grimshy, Lincolnshire

To get Champions by the produce of Champions. These can always be secured from the Riby Grove Herd and Flock, the largest in England, comprising the choicest lines of blood extant. Theirs is a world-wide reputation, and suffice to say that at no period of its history, dating back 150 years, were they stronger in merit or quality. 86 awards were won in 1901, and equally good results secured in 1902, culminating in those great victories at Smithfield Show, where its pen of wethers won the 100-guineas Challenge Cup for the best pen of sheep of any age or breed; and at Chicago Live Stock Show, in December last, where a ram from this flock won the \$400 prize offered for the heaviest sheep in the world. Cable—Dudding Keelby, England

HAMPSHIRE DOWN

"RESERVE" FOR CHAMPION IN THE SHORT-WOOL CLASSES, SMITHFIELD, LONDON, 1901.

Splendid Mutton, Good Wool, Great Weight.

This highly valuable ENGLISH BREED OF SHEEP is unrivalled in its wonderfully early maturity and hardiness of constitution, adapted to all climates, whilst in the quality of mutton and large proportion of lean meat it is unsurpassed; and for crossing purposes with any other breed, unequalled. Full information of

JAMES E. RAWLENCE,

SHUBBEARY HAMPSHIRE DOWN SHEEP BREEDERS' ASSOCIATION, SALISBURY. ENGLAND

MONEROISONOUS

THE ORIGINAL

# Non-Poisonous Fluid

Still the favorite dip, as proved by the costimony of our Minister of Agriculture and other large breeders. For sheep.

Kills ticks, maggots; cures scab; heals old sores, wounds, etc., and greatly increases and improves growth of wool.

Cattle, horses, pigs, etc. Cleanses the skin from all insects, and makes the coat beautifully soft and glossy. Prevents the attack of Warble Fly.

Heals saddle galls, sore shoulders, ulcers, etc. Keeps animals free from infection.

No danger, safe, cheap, and effective Beware of imitations. Soid in large tins at 75 cents. Sufficient in each to make from 25 to 40 gallons of wash, according to strength required. Special terms to breeders, ranch-men, and others requiring large quantities.

SOLD BY ALL DRUGGISTS. SEND FOR PAMPHLET.

Robert Wightman, Druggist, Swana Sole agent for the Dominion.

## GOSSIP.

Signing a document without reading it often makes a man wish he had read it without signing.

In Falkirk churchyard is an ancient tombstone with rough figures of Adam and Eve carved thereon. Underneath is the inscription: "Solomon, in all his glory, was not arrayed like one of these."

" Oconomowoc! Oconomowoc!" yelled a brakeman as the train stopped at a town on the Chicago & Milwaukee Railroad. "Begorra, O'Connor won't walk!" exclaimed a son of Erin who was in the car. "I have me ticket to Milwaukee, and I'll ride till we get there."

"Archdeacon Farrar tells about a boy who took a flower with him to his work every morning. He put the flower on his desk in the schoolroom, and when asked why he did this, he replied that the flower was to remind him of God and keep him from evil thoughts. So should every beautiful thing we see of God's handiwork serve to keep us true to Him."

A farmer who had engaged the services of a raw tenderfoot, sent him out one morning to harrow a piece of ground. He found the harrows upsidedown, and not knowing anything was wrong, he proceeded to work them as he found them. He had not worked long before all the teeth came out of the harrows. Presently the farmer came into the field and asked him how he liked the job.

"Oh," he replied, "it goes a bit smoother since the pegs have come out."

CANADIAN WINNERS AT CHICAGO. In the classes in which exhibits were made by Canadian breeders at the late Chicago International Live Stock Show, they were remarkably successful in winning important prizes. In Clydesdale horses, they won the championship for the best stallicn and the best mare, any age, and in various sections of the class, the first for three-year-old, two-year-old and yearling stallion, the first for aged mare, the second, third and fourth for yearling mares and the first for a group of four the get of one sire. In Hackneys, the first for aged stallion and for three-year-old stallion and the championship for best stallion any age were won by Canadians.

In the breeding cattle classes no Canadians exhibited, but the champion Shorthorn female, all ages competing, was bred in Canada. The first-prize cow of the same breed, who was the reserve number for the championship, was purchased by her cwner in Canada. The first-prize junior yearling bull was sired by a Canadian-bred bull. first-prize senior yearling heifer was bred in Canada, and the second-prize heifer, in same section, was from Canadian-

bred sire and dam. In the sheep, Canadian breeders showed strongly in a number of classes, and made a splendid record in prizewinning in every class in which they competed. In Shropshires (breeding class), they won second for aged ram and shearling ram, first and second for ram lamb, first and second for yearling ewes, second for ewe lambs, first for flock, first for four lambs the get of one sire and first for American-bred ewe lamb. In Southdowns, the first prize for yearling ram came to Canada. In Dorsets, the champion ram was bred and owned in Canada. In Cotswolds, the championship for the best ewe, any age, was bred and owned in this country, as was also the first-prize In the class for Lincoln ewe lamb. sheep, all the first prizes and championships went to Canadian exhibitors, and in the Leicester class the same record was made by Canadian breeders.

In the fat-sheep division, Canadian flocks made a brilliant showing, winning all the first prizes and championships in the Shropshire, Southdown, Dorset, Cotswold, Lincoln and Leicester classes. First for grade wether lamb of mediumwool type, and all the firsts and championships of long-wool type; also the grand championships for best wether lamb, any breed, grade or cross, and for the best five wether lambs, of any breed, grade or cross.

We hold the world's public sale record for

At the leading shows of America, in 1901 and 1902, we won 90 PER CENT. of all first prizes.

Pigs of all ages for sale at all times. We have the best blood from the leading herds of the world. When you want something good, write us. Prices are moderate.

D. C. FLATT & SON, Millgrove, Ont.

HILLOREST LARGE ENGLISH BERKSHIRES HERD OF Founded upon imported stock and Canadian show animals. Various strains represented and new blood introduced at intervals. Each purchaser gets registered certificate of pedigree, and any animal falling to prove a breeder is replaced. JNO. LAHMER, VINE. ONT.; Vine Sta., G.T.R., near Barrie.

Oxford Down Sheep at "Farnham Farm." established

First time entered show-ring since "World's Fair," Chicago. Won this year at Toronto, Syracuse, London and Ottawa, 40 firsts. 25 seconds, 12 thirds and 6 champion prises. Am offering for fall trade 20 yr. and two-shear stock rams, strong, fine fellows; 40 yearling and two-shear ewes, bred to imported Vanity and Hampton Hero 4th, both flock rams; 100 ram and ewe lambs of most modern type, from imported sires. Prices reasonable Guelph, G. T. R. Arkell, C. P. R. Telegraph, Guelph.

HENRY ARKELL, ARKELL, ONT.

Reference—"Farmer's Advocate."

## CLAYFIELD STOCK FARM J. C. ROSS, PROP., JARVIS, ONT.

Cotswold Sheep ready for shipment. Shearling and yearling rame, bred ewes and ewe lambs; imported and Canadian-bred. My flock has won 131 firsts and 85 seconds at Toronto, London, Guelph and other county shows, also silver medal and two and other county snows, as to a liver measured and other county snows, as to a liver measured and control of the county snows, as to a liver measured for shirment. Two yearing bulls, one six months' bull and several young heifers of choice breeding. Clydesdales—I have for sale two or three very choice two-year-old and three-year-old snows are control of the county allies. Accurate Description Guaranteed. o

SOUTHDOWNS A high-class lot of 50 EWES for sale, inlamb to imported Babraham Hodge and imported Babraham Pattern the latter a winner at the Royal and at the Western Fair London, beating the 1st wine Toucht winner.



Linden Oxfords. Imported and home-bred stock of the

choicest breeding always on hand. R. J. HINE, Dutton, Elgin County, Ont.

# TSWOLDS

Shearling ram, shearling ewes. Ram lambs and ewe lambs from 450-lb. ram, winner of silver medal, Toronto. ELGIN F. PARK, Box 21, Burgessville, Out. | Vewcastle Herd. Tamworths and Shorthorns

# FAIRVIEW SHROPSHIRE EWES.

A few good ones, bred to first-class imported prizewinning Rams, for sale. Also Barred Rock cockerels, equal to the 1902 birds, which, without exception, pleased customers. Prices \$1.50 and \$2.

# JOHN CAMPBELL, Woodville, Ont.

SHROPSHIRES—A flock of 110 head, fine, healthy sheep, Can supply 2-year, 1-year and ram lambs; also 2-year, 1-year and ewe lambs, Prices reasonable.

ABRAM RUDELL, Prices reasonable. Hespeler, Ont.

# Lincoln Sheep and Shorthorn Cattle

Cho ce Lincoln Lambs of both sexes. Several carone cancoin Lambs of Doth sexes. Several car-loads choice yearling rams and two carloads of one and two-year-old ewes, ready for Sept. and Oct. delivery. Also some choice young bulls, cows and heifers, which will make good herd foundations.

F. H. NEIL, PROP. Telegraph and R. R. Station, o LUCAN, ONT.

## SHEEP ORSET

A choice lot of EWES and RAMS of different ages for sale.

JOHN HUNTER, WYOMING P.O., ONT.

SHROPSHIRE shearling rams, shearling ewes ram and ewe lambs of choice breeding. Prices right. GEO. HINDMARSH, Ailsa Craig, Ont.

# American Leicester Breeders ASSOCIATION.

A. W. Smith, Pres., Maple Lodge, Ont. Pedigrees now being received for Vol. 5, For information, blanks, etc., address:

A. J. TEMPLE, SEO., OAMERON, ILL. U. S. A.

# SHROPSHIRES.

We are now offering an extra good lot of shearling Shropshire Rams and Ewes, some fitted for show, also ram and ewe lambs. All at very reasonable prices.

JOHN MILLER & SONS,

Claremont, Station, C.P.R. Only The Best. My small but select importa-tion of Shropshires and Short-horns are just home. Imported and home-bred same and ewes, bulls and helifers of the best quality and breeding for sale at moderate prices. ROBERT WILLER, ftouffville, Ont.

Representative in America of Alfred Mansell & Co., Shrewsbury, England.

SHROPSHIRES AND SHORTHORNS Ram and ewe lambs for sale, sired by imported Rud-yard ram; 2 shearling rams; 1 bull, fifteen months old. om HUGH PUGH, WHITEVALE, ORT.

SHEEP BREEDERS' ASSOCIATIONS
American Shropshire Registry Association, the
largest live stock organization in the world. Rion,
John Dryden, President, Toronto, Canada, Address
correspondence to MORITIMER LEVERING, Scoreary, Lafavette, Indiana.

SPFCIAL SALE OF SHROPSHIRE SHEEP, Offering for this month: 10 shearling rams and 8 ram lambs, out of imported ewes; also a few imported ewes and ewe lambs. Prices very low for immediate sale.

T. D. McCALLUM, "Nether Lea,"

"BROAD LEA OXFORDS." Am offering choice ewe and ram lambs, shearing ewes and a few shearling rams for flock headers, Also young Yorkshire pigs of the best bacon types.
Teeswater, C. P. R. W. H. ARKELL,
Mildmay, G. T. R. om Teeswater, Ont.

Danville, Que,

We have for quick sale several choice spring sows, due to farrow in March: also about 30 Oct. and Nov. boars and sows, the produce of our Toronto sweens akes stock and the undefeated brar, Colwill's Choice 1343. We also offer for quick sale at moderate prices, one 12-mos. Shorthorn bull calf, 2 heifer calves, and 2-vear-old heifer in calf; all first-class stock and got by bull weighing 2,500 lbs. Write quick, if you want something good at moderte prices, to 0
COLWILL BROS., Newcastle, Ont.

TAMWORTES At living prices. Have some excellent young stock of good bacon type; both sexes. LOUIS D. BARCHFELD. Grimsby, Ont., P. O. and Station. Telephone on farm.

TAMWORTES. FOR SALE: Two young sows, bred to Dandy = 2954=, a good typical sire; also several young boars and sows of very best breeding.

BRONZE TURKEY EGGS-83 per setting. HAZEL DELL STOCK FARM. D. J. GIRSON, Bowmanville. Ont,

# **GLENHOLM HERD (IF TAMWORTHS**

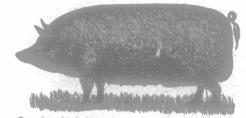
For sale: 1 boar, 6 months: Sept. and Oct. pigs, both sexes. Pairs supplied not akin. F.O. SARGENT, Eddystone, Grafton Sta., G.T.R.

BERKSHIRES AND YORKSHIRES. For Sale—Boars fit for service; sows in farrow and ready to breed, and younger stock, all of the ideal bacon type. Pairs not akin. JOHN BOYES, Jr., Rosebank Farm. om Churchill. Ont.

# **Weston Herd Large Yorkshires**

Choice young stock for sale, from imported and home-bred stock of highest breeding and quality. Prices low. Satisfaction guaranteed. My motto: 'Not how cheap, but how good.' Telephone, Telegraph and Stations: C. P. R. and G. T. R., Weston, Ont. (electric cars from Toronto). Address: om

L. ROGERS, EMERY, ONT.



One hundred Tamworth and Improved Chester White Spring Pige of a true bacon type, our herd having won the best prizes offered at the leading exhibitions throughout Ontario and Quebec for the past ten years. Stock for exhibition purposes a specialty. We pay express charges between stations, and guarantee safe arrival of all stock shipped. Paire furnished not akin. Write for prices.

H. GEORGE & SONS, Crampton P.O., Ont.

Yorkshires, Collies and Poultry This month we are offering something extra in Yorkshire boars and sows, 6 weeks to 4 months. Will sell 10 yearling W. Wyandotte hens and two cocks, all fine stock. Choice pedigreed collies. 5 J. A. & A. B. Armstrong, Warkworth, Ont.

YORKSHIRES ENGLISH

For sale: Imported sow, in farrow to imported boar; one imported boar, year old; boars 5 and 6 months, fit for service; sows ready to breed, from imported stock; young pige, 8 weeks old. Write JAS. A. RUSSELL, Precious Corners, Ont.

# MAPLE GROVE HERD YORKSHIRES

I have several young sows, bred to my Imp, boar, ready to ship. Also 3 or 4 nice young boars, 6, 10 and 12 months old, of my usual good breeding. My herd have won 29 lets, 25 2nds and 2 diplomas at 5 county fairs this year, including diploma for best bacon boar and sow (all breeds competing). Write for my prices, as I have some first-class stock for sale,

T. J. COLE, Box 188, Bowmanville, Ont. IMPORTED AND HOME-BRED YORKSHIRES.

Boars and sows ready to breed. Choice lot of imported-in-dam young pigs. Sows in pig and being bred to imported show boars. pigs supplied, not akin. Write

H. J. DAVIS, Woodstock, Ont.

CHESTER WHITES We will furnish some first-class pigs, farrowed July 21st, at seven dollars each if taken soon. Pigs are the best we ever raised.

J. F. PARSONS & SONS, Barnston, Que.

ENGLISH BERKSHIRES. Young boars at special prices; young sows, bred or ready to breed; also Shorthorn calves and Shropshire rams and ram lambs, JOHN RACHY, Jr., - Lennoxville, Que.

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. Clarkoon Station, S. T. E.

YORKSHIRES Boars at for service, at reduced prices. Sows in farrow and ready to breed, and young stock on hand. Vrite for pric WM. HOWE, North Bruce, Ont.

YORKSHIRES AND COTSWOLDS. Grand young boar and some excellent young sows, 5 months old, of right type. Also high-class Jersey cattle and young Cotswold ewes. O

GLENBURN HERD; winners of gold medal 2 years in succession; averages 100 head. Sires at head of herd: Imp. Holywell Hewson and Oak Lodge Prior. A large number of sows for sale, due to farrow in March or April, also a few good young boars. Prices reasonable. David Barr. Jr., Reenfrew, Ont. Box 3.

Willow Lodge Berkshires.

I will offer very cheap for the next thirty days, young boars and sows from 2 months old up to 7 months old, of extra quality and breeding, in order to make room for the litters now with sows.

Can supply pairs not akin.

WM WILSON, Snelgrove, Ont.



YORKSHIRES For sale: Sows in pig to imported boar; sows 3 months old; boars imported and home-bred: at reduced prices for one month. Write om C. & J. CARRUTHERS. COBOURG. ONT. FOR SALE:

Yorkshires and Holsteins Best type and quality. Young stock constantly on hand. Prices right. B. HONEY, om Brickley P. O., instead of Warkworth.

Chesterswine

From Toronto and London prizewinners, Dorset sheep and lambs. Prices reasonable. R. H HARDING, Mapleview Farm. om Thorndale, Ont. AN INCUBATOR WITHOUT CASH

Until October, 1904

There is money in chickens—big money. The farmer who overlooks this branch of his business is neglecting one of the greatest profit-producing departments of his farm. For the amount of capital and labor invested the returns are enormous. But you must do it right.

You cannot make money in the poultry business without an incubator and brooder. You might as well depend on a cyclone to move your house and set it where you want it as depend on a hen to raise chickens for the market. Both are equally beyond your control.

Choosing the best incubator is the problem. With makers claiming so much for their machines you are left in a quandary. questions by the most liberal offer ever made. If we hadn't the best Incubator on the market and unquestioned financial strength we could not make it. Here is the offer:

We will give you a chance of raising poultry under the best conditions, without the outlay of one cent until October, 1904.

We will send you—freight prepaid by us-a

# Chatham Incubator and Brooder

and leave it with you until October, 1904, without any cash from you.

Give it a thorough test, make money out of it—the more you make the better pleased we shall be. When October, 1904, arrives you should have made sufficient profits to pay for this incubator several times over.

There is no string to this offer. It is open and free. We make it to show our supreme confidence in the Chatham Incubator and Brooder. We want everyone who desires to raise poultry for profit to accept it-We want you to fill out the coupon in the lower right-hand corner of this Ad. and mail it to us-or send us a postal card with your name and address. We will then give you full particulars. Write to-day.

Please find enclosed postal order for \$21. Please send me back my note. Your incubator that you sent me is O. K. I had 200 chickens from 213 eggs, and the 13 eggs that did not hatch were unfertile. Yours truly,

PAUL CARON.

Yours of June 17th at hand, and am much pleased with your generous business principles. Our last hatch came off on Saturday, and out of 155 eggs we set we have 69 strong, healthy chicks, making a total of 383 living chicks out of 332 eggs that were set. This proves without saying that the incubator is giving great satisfaction.

Yours truly,
Waterford, Ont.

ROBERT C. BEECRAFT.

I take pleasure in writing to congratulate you for the M. Campbell Fanning Mill Company on the assol-lent incubator that your Company put on the market this year. As you are aware I purchased a No. 3; and after four batches I can state that it is a first-clease manables, and it pleases me more insumed that it is

We depend on every machine we put out to advertise itself in your neighborhood—we know it will prove such a good profit-producer for you that you will be pleased to tell your neighbors about it. Merit is the only quality that will do this. Because we know the Chatham Incubator and Brooder

possesses this merit we are willing to sell it on these easy terms. Remember, we do not ask you for one cent of cash until October, 1904. Don't delay. Send the coupon or postal card for particulars to-day.

M. Campbell Fanning Mill Co. Limited CHATHAM, ONT.

Manufacturers of Chatham Incubators and Brooders

Distributing Warehouses at Montreal, Que. Brandon, Man. Calgary, Alta. Vancouver, B.C. Halifax N.S. Factories at

Chatham, Ont., Detroit, Mich. Also Manufacturers of the Famous Campbell Fanning Mills.

Mention this paper.

CAMPBELL FANNING MILL CO.

CHATHAM, ONT. DEPT.51

Please send your descriptive Catalogue of the Chatham Incubator, together with all information about your special offer, whereby no cash will be paid until October, 1904.

P. O. Address

Nearest Railway Station . Address all letters to Chatham, Ont.

**Mammoth Bronze Turkeys** A choice lot of young birds sired by an imported tom. Chester White swine, good bacon type, either sex. Write for prices. W. E. WRIGHT, o Sunnyside Stock Farm. Glanworth P. O., Ont.

50 Grand Mammoth Bronze Turkeys

Both sexes, bred from imported tom and hens. T. HARDY SHORE, Glanworth, Ont. o MAMMOTH BRONZE TURKEYS, heavy birds, sired by imported toms, stock from the first-prize Pan-American winners in Buffalo in 1901. Pairs and trios mated not akin. o R. G. ROSE, Glanworth, Ont.

PEKIN DUCKS. We offer for sale fine, heavy ducks at close First-class in every way. Also Barred Rocks. Free circular.

o H. GEE & SONS, Selkirk, Ont.

FOR SALE OR EXCHANGE Toulouse and Embden geese, Pekin ducks, White Plymouth Rock, Barred Plymouth Rock and White Leghorn cockerels. Would exchange for Partridge Cochin pullets, Brown Leghorn cockerels or White Muscovy drake. Also Yorkshire swine from the Pioneer Herd of the Province of Quebec, all ages and sexes. Nothing but No. I pigs shipped. Write for prices to A. GILMORE & SONS.

Athelstan, Que. Athelstan, Que.

A.E. SHERRINGTON Importer and breeder of BARRED ROCKS exclusively. Breeding hens, pullets and cockerels in sale. Writeforprices. Box 100, Walkerton, Ont.

Wanted—A Young Man to assist herdsman, used to cattle. Must be of steady habits. Give references and all particulars. Address—HERDSMAN, Borden Stock Farm, Tonti, III.

Wanted — A Herdsman who knows how to take care of Ayrahirs coucaives and Yorkshire pigs. Married preferred. A dress—PINE LANE FARM, Middletown, N. Y.

# HE J



# YOU ARE TO BE THE ONE

to say whether it is or isn't; whether you will or you won't; whether we are RIGHT or wrong. We leave it TO YOU entirely, for YOU to decide. The only evidence we want to submit is a dollar package of VITÆ-ORE, which package we want you to USE, and at our risk.

ALL we ask is a FAIR VERDICT. We say, if you are sick, that VITÆ-ORE WILL CURE YOU. We say that ONE PACKAGE will PROVE to you that it is the remedy for your case and condition. If it does not, YOU TO BE THE JUDGE, we want nothing from you.

E WILL SEND to every worthy sick and ailing person who writes, mentioning Tae Farmer's Advocate, a full-sized \$1 package of VITÆ ORE by mail, Postpato, sufficient for one month's continuous treatment, to be paid for within one month's time after receipt, if the receiver can truthfully say that its use has done him or her more good than all the drugs and doses of quacks or good doctors or patent medicines he or she has ever used. Read this over again carefully, and understand that we ask our pay only when it has done you good, and not before. We take all the risk; you have nothing to lose. If it does not benefit you, you pay us nothing. We do not offer to send you a free sample to last three or four days, but we do offer to send you a regular \$1 package of the most successful curative medicine known to the civilized world, without one cent of risk to you. We offer to give you thirty days to try the medicine, thirty days to see results before you need pay us one cent, and you do not pay the one cent unless you do see the results. You are to be the judge! We know that when VITÆ-ORE has put you on the road to a cure you will be more than willing to pay. We are willing to take the risk.

What Vitee-Ore Is: Vitee-Ore is a natural, hard, adamantine, rock-like substance—mineral—ORE—mined from the ground like gold and silver, in the neighborhood of a once powerful but now extinct mineral spring. It requires 20 years for oxidation by exposure to the air, when it slacks down like lime and is then of medicinal value. It contains free iron, free sulphur and free magnesium, three properties which are most essential for the retention of health in the human system, and one package—one ounce—of the ORE, when mixed with a quart of water, will equal in medicinal strength and curative value 800 gallons of the most powerful mineral water drunk fresh from the springs. It is a geological discovery, in which there is nothing added or taken from. It is the marvel of the century for curing

Rheumatism, Bright's Disease, Blood Poisoning, Heart Trouble, Dropsy, Catarrh and Throat Affections, Liver, Kidney and Bladder Ailments, Stomach and Female Disorders, La Grippe, Malarial Fever, Nervous Prostration and General Debility.

as thousands testify, and as no one, answering this, writing for a package, will deny after using. Vitee-Ore has cured more chronic, obstinate, pronounced incurable cases than any other known medicine and will reach such cases with a more rapid and powerful curative action than any medicine, combination of medicines or doctor's prescription which it is possible to procure.

VITE-ORE will do the same for you as it has for hundreds of readers of this paper, if you will give it a trial. Send for a \$1 package at our risk. You have nothing to lose but the stamp to answer this announcement. We want no one's money whom Vitee-Ore cannot benefit. You are to be the judge! Can anything be more fair? What sensible person, no matter how prejudiced he or she may be, who desires a cure and is willing to pay for it, would hesitate to try Vitee-Ore on this liberal offer? One package is usually sufficient to cure ordinary cases; two or three for chronic, obstinate cases. We mean just what we say in this announcement, and will dojust as we agree. Write to-day for a package at our risk and expense, giving your age and ailments, and mention this paper, so we may know that you are entitled to this liberal offer.

This offer will challenge the attention and consideration and afterward the gratitude of every living person who desires better health or who suffers pains, ills and diseases which have defied the medical world and grown worse with age. We care not for your skepticism, but ask only your investigation, and at our expense, regardless of what ills you have, by sending to us for a package.

SENT BY MAIL—WE PAY POSTAGE!

# **Permanent Cures**

In making the claim a quarter of a century ago that Vitæ-Ore is the best thing in. on or out of the earth for sick, ailing or suffer-

edly and unqualifiedly, without any stipulation or "saving clause," knowing from our experience and from the experience of the few who had already used it at that early date, that its virtues and curative properties would fully substantiate this claim; that it was the best, not only because it gave relief from pain and the effects of disease, but that it cured the disease, and cured it effectually and permanently, thence the reason for the lines we have so often used in our advertisements and literature: "Get cured and stay cured," and "Not only hence the reason for the lines we have so often used in our advertisements and literature: "Get cured and stay cured," and "Not only immedia" relief, but a permanent cure." Too many preparations are put on the market and advertised to give relief, too few to cure, the test of a medicine is not so much in the experience and immediate testimony from the use of one package or bottle, but in the experience of people written months or years after they have used that one package or bottle, and who testify that it cured them at that time, and that they have never had a recurrence of the malady. How many of the testimonials, you see published in the papers of the land are and that they have never had a recurrence of the malady. How many of the testimonials, how many who testify that they were and are permanently cured? Vitæ-Ore has thousands upon thousands of such such testimonials, how many who testify that they were and are permanently cured? Vitæ-Ore has thousands upon thousands of such such testimonials, how many who testify that they were and are cured to-day. It is curing people by the thousands to-day, of all manner of diseases, who will tion, and they have remained cured and are cured to-day. It is curing people by the thousands to-day, of all manner of diseases, who will too and they have remained cured and are cured to-day. It is curing people who wrote us testimonial letters years still be cured at a date a quarter of a century hence. We have repeatedly received lett

# ARE TO BE THE JUDGE!

Almost everyone in this latitude is a sufferer from diseases caused by IMPURE BLOOD, the corner-stone of more ills than all other causes combined, and only here and there one recognizes that in his blood lurks the seeds of disease, ready to take root and manifest themselves at the first opportunity in some of the innumerable hideous ways so dreaded by everybody. Every neighborhood has its afflicted, many seemingly incurable, with complaints that have gradually and almost imperbed in the system, such as Stomach, Liver and Bowel Troubles. Lach takes one or more forms peculiar to such diseases, but all are due to pod in the system, such as Stomach, Liver and Bowel Troubles. Lach takes one or more forms peculiar to such diseases, but all are due to power sto faithfully perform its duties to the system, causing a long list of complaints which yearly drag thousands to the grave.

To purify the blood, eradicate disease, build up the system, vitae-Ore is without a peer among remedial agents. No other remedy to say that I am now entirely cured and have been undermining the special or the circular to such diseases, but all are due to to such diseases, but all are due to to such diseases, but all are due to such diseases, but all are due to to such diseases, but all are due to such diseases, but all are due to to such diseases, but all are due to such dis

# DESPAIRED OF LIVING.

A CHRONIC CASE OF STOMACH TROUBLE CURED IN QUICK TIMES.

Read What an Edmonton Man Says of Vite-Ore.

Edmonton, Alta., N.-W. T.

I had been troubled almost all my life with a
Stomach Disorder, and tried hungreds of remedies—in fact, every one I heard of for that
trouble—with nopermanent relief. About three



years ago it developed so severely that I was compelled to give up work and almost despaired of living much longer; in truth, I did not think in my c ndition life was worth the living Seeing Vitee-Ore advertised in my paper on thirty days trial I procured a package, and at the end of the mooth's treatment I had such relief that I bought two more packages. When I had finished the second package I had begun to gain in flesh, and when I had taken the third package I was strong and healthy, weighing more than I ever did before, and I am now enjoying a health and comfort that words cannot express. I think Vitæ-Ore is the best Stomach remedy that can be had, and to all afflicted with Stomach Troubles it cannot be too highly recommended.

M. M. Johnston. years ago it developed so severely that I was

# GAINED TEN POUNDS IN WEIGHT

Suffered for Five Years from General Debility; Two Years from Indigestion and Salt Kheum

Clinton, Ont,
I wish to tell what Vite-Ore has done for me,
in the hope that I may help others to be cured
as I have been. I had been suffering for five
years with General Debility and Neuralgia
in my head, and two years ago I began to be
troubled with Indigestion and malt Rheum, the
latter appearing on my hands, and could hardly
eat or sleep. Although I doctored with some
good doctors, I received no benefit until I commenced using Vite-Ore, and before I used all
of two packages I had gained ten pounds,
Three packages of Vitæ-Ore have made me a
new woman.

MRS. MARY KNOOT. Clinton, Ont.

# **Cured After Seven Years' Suffering** READ WHAT A QUEBEO MAN SAYS.

Lance Au Beaufils, Que. After suffering for about seven years with Rheumatism my attention was called to Viteore, and as I had tried nearly everything else recommended to me I decided to give it a trial The result was far different from the other medicines and treatments I have used, as I am now cured of my trouble. Mine has certainly been a hard and obstinate case, which gives Vitæ Ore all the more triumph for having accomplished what all others could ALFRED LENSFESTEY.

# RELIEF INSTANTANEOUS.

Cured in Remarkably Short Time of Catarrh of Throat and Serious Stomach Trouble.

Chesterfield, Ont. Chesterfield, Ont.
The Vitæ-Ore treatment has done wonders for
my wife. She has been troubled for years with
Catarrh of the Throat, and also Stomach
Trouble, manifested by an accumulation of gas
on the stomach after eating. The treatment in
her case brought almost instantaneous results,
and we both feel jubilant over it. John Risk.

# IN PAIN NIGHT AND DAY.

NOEL, Geologist, Yongest., Toronto, Ont.

"ad'y mention the FARMER'S ADVOCATE. the advertisement on