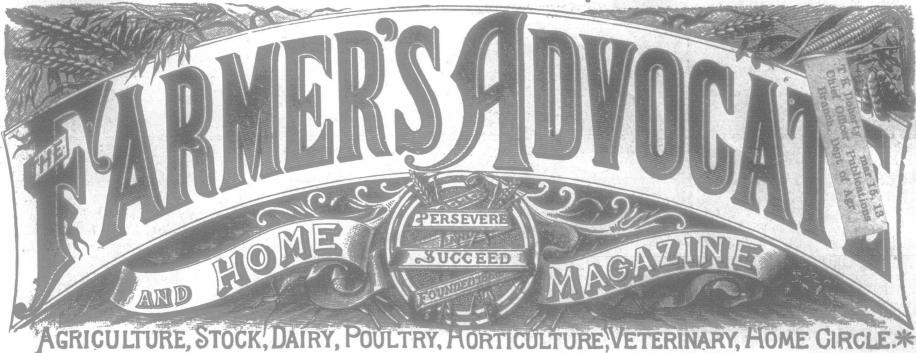
# PAGES MISSING

EVERY



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VOL. XLVIII.

LONDON, ONTARIO, JANUARY 30, 1913.

No. 1062

Free to Stock and Poly We will send absolutely free, for the asking, postpaid, one of any the common diseases of stock and restricted the common disease of stock and restricted the common disease of

We will send absolutely free, for the asking, postpaid, one of our large sixty-four page books, with insert, on the common diseases of stock and poultry. Tells how to feed all kinds of heavy and light horses, colts and mares, milch cows, calves and fattening steers; also, how to keep and feed poultry so that they will lay as well in winter as summer. No farmer should be without it.

NOW is the time to use Royal Purple Stock Specific. a cost of only two-thirds of a cent per day per animal, it will increase it 25 per cent. in value. It permanently cured Bots, Colic, Worms, Skin Diseases and Debility. Restores run-down animals to plumpness and vigor. It will increase the milk yield three to five pounds per cow per day and make the milk richer.

Royal Purple is not a stock food. There is no filler used in its manufacture, and we import from Europe all the seeds, herbs, barks, etc., and grind them on our own premises. Therefore, we can guarantee it to you as being absolutely pure. We do not use cheap filler to make up a large package. We give you the best condition powder ever put on the market in a concentrated form. trated form.

A tablespoon levelled off, once a day, is sufficient for a full-grown animal. It prvents disease, keeps your animals in perfect health, and is absolutely harmless. It makes six-weeks-old calves as large as ordinary calves at ten weeks. You can develop six pigs ready for market in just one month's less time than you can possibly do without it, at a cost of only \$1.50, saving you a month's work and food.

A 50c. package will last a horse 70 days. A \$1.50 pail or air-tight tin, containing four times as much as a 50c. package.

will last an animal 280 days. If you have never used it, try it on the poorest animal you have on your place, and watch results. If it does not produce better results than anything you have ever used, or give you satisfaction, we will refund your money.

Toledo, Ont., July 1, 1910.

W. A. Jenkins Mfg. Co., London, Canada. Gentlemen,—I have used a part of a package of your "Royal Purple Stock Specific." I fed it to one cow according to directions. She gained six pounds of milk while using part of a package. The rest of my herd reduced in milk while this one gained.

T. G. BELLAMY.

Bondhead, Ont., Aug. 31, 1912. The W. A. Jenkins Mfg. Co., London, Ont.

The W. A. Jenkins Mfg. Co., London, Ont.
Gentlemen,—After experimenting with
a great many stock foods, I was about convinced that there was very little virtue in
any of it, but your dealer insisted on the
trying Royal Purple Stock Specific, saying
It was different from all others. I have
since used a great lot of it, as I keep from
ten to twenty horses and about the same of cattle. This
Specific, in my opinion, is certainly in a class by itself as a
conditioner, and is the best I have ever used.

GEORGE MAPES.

GEORGE MAPES.

Clear Creek, Ont., Sept. 19, 1912.

W. A. Jenkins Mfg. Co., London, Ont.

W. A. Jenkins Mfg. Co., London, Ont.

Dear Sirs,—Your "Royal Purple" Stock Specific is the best stock conditioner I have ever had in my stables, and am never without it. I had a brood sow that had milk fever very bad. Your "Royal Purple" saved her life. Put her on her feet in three days. I had three calves last spring that got scouring very badly. Could not get it stopped until I used "Royal Purple." It did the work O.K.

Yours truly, H. B. MOULTON.

Saskatoon, Sask., Sept. 20th.

The W. A. Jenkins Mfg. Co., London, Canada. Gentlemen,—Some months ago we bought some of your Royal Purple Stock Specific from Mr. Vogan here. We have been using it ever since, and we find it the best conditioner for driving horses we have ever tried.

Scott, Sask., May 22nd, 1911. The W. A. Jenkins Mfg. Co., London, Ont.

Dear Sirs.—Do you want a man to represent your Royal Purple goods in this district. I am from Ontario, and have fed your Stock Specific—got it from Mr. J. Corbett, of Brownsville. My cows, while using it, made the largest average, and tested five points over average at C.M.P. at Brownsville. I know your goods are the highest class Stock Specific on the market, and take great pleasure in representing you in this district

NORMAN G. CHARLTON.

#### **Royal Purple Poultry Specific**

will make your hens lay in winter, as well as summer, and yet a 50c. package will last 25 hens 70 days, or a \$1.50 pail or air-tight tia, containing four times as much as a 50c. package, will last 280 days. It prevents poultry from losing flesh at moulting time, cures and prevents all the ordinary diseases, makes their plumage bright, and keeps them in prime condition.

Port Colborne, May 11.

W. A. Jenkins Mfg. Co., London, Canada. Dear Sirs,—This is to certify that I have used one \$1.50 tin of your "Royal Purple" Poultry Specific, and there is nothing that can equal it. I wanted yours again and your agent did not have any, so he gave me another brand, and I can assure you it was not worth carrying home, for my hens layed better without it. I have been from 12 to 15 dozen eggs short every week since I have not used your "Royal Purple." it. I have been from 12 to 15 dozen I have not used your "Royal Purple.

A second from Mr. Richardson as follows:-

Dear Sirs,—Please find enclosed express order for \$3.00, for which please send me two tins of your "Royal Purple" Poultry

A third letter from Mr. Richardson as follows:—

Dear Sirs,—I received two tins of "Royal Purple" Poultry Specific all O.K. I have tried all kinds of specific to make my hens lay, and I find that you are the only ones that manufacture the genuine article. All the rest, I think, is a waste of time and money to bother with. As an egg-producer, I cannot praise your Poultry Specific high enough, for I would not be without it if I had to nay double the money.

W. A. Jenkins Mfg. Co., London, Canada.

W. A. Jenkins Mfg. Co., London, Canada.

it if I had to pay double the money.

Port Colbborne, Ont., Aug. 24, 1910.

C. RICHARDSON.

Port Colborne, Ont., Aug. 29, 1910.

CHARLES RICHARDSON.

Sherbrooke, Que., Aug. 1, 1910.

W. A. Jenkins Mfg. Co., London, Canada. Dear Sirs,—I have used your Specific for one year, and have given it to my birds with good results. See my winnings at the different fairs, which will tell the tale.

MISS GEORGINA CAMIRAUD.

#### **Royal Purple Gough Specific**

During the last four years there has been an epidemic cough going through every stable in Canada, which has been a great source of annoyance to horsemen. Our Royal Purple Cough Cure will absolutely cure this cough in four days, will break up and cure distemper in ten days. Absolutely guaranteed. 50c. per tin; by mail, 55c.

#### Royal Purple Gall Cure

will cure all sorts of open sores on man or beast. Will abso-lutely dry up and cure scratches in a very few days.

Mr. Sam Owen, coachman for the Hon. Adam Beck, says: ""By following directions, I find your Royal Purple Gall Cure will cure scratches and make the scabe peel of perfectly dry in about four or five days." Price, 25c.; by mail, 30c.

#### **Royal Purple Sweat Liniment**

will reduce lameness in a very short time. Mr. John M. Daly.
coalman in London, says: "We have nine
horses constantly teaming coal, and have
all kinds of trouble with them being lame
at times. I have used your Sweat Liniment for a year back, and have never known
it to fail to cure sprained tendons, etc."
Price, 50c., 8-ounce bottles; by mail, 60c.

## **Royal Purple Lice Killer**

This is entirely different from any lice killer on the market. In order for you to understand the process of manufacture of this lice killer, you will have to send for one of our booklets, as we give you a full history of it there. It will entirely exterminate lice on fowls or animals with not more than one or two applications. It smothers them. Price 25c.; by mail, 30c. STOCK AND POULTRY SPECIFICS

#### Royal Purple Disinfectant (Sheep Dip)

In this line we give you the largest value for the money of any disinfectant on the market. A tin containing 1 3-3 qts. Imperial measure will cost you only 50c. Also put up in 25c.tins.

#### Royal Purple Roup Gure

Mr. Dulmage, the great breeder, of White Rocks, tells us that he has never used a Roup Cure that will give relief so quickly to hens suffering from Roup or kindred diseases. Our book tells you all about it. 25c. per tin; 30c. by mail.

# Royal Purple Worm Powders

For animals. 25c. per tin; by mail, 30c.

C. RICHARDSON. H. F. McCALLUM, "The Palace Livery." In using our Stock Specific, we guarantee you better results by using the ordinary food grown on your farm, such as good hay, oats and bran, and so forth, than you can possibly obtain by using any of the many patent foods on the market. In these the percentage of nutrition is usually and so forth, than you can possibly obtain by using any of the many patent foods on the market. In these the percentage of nutrition is usually and so forth, the amount of money paid for the same. You know exactly what hay, oats, bran, chop or any farm products cost you, and ROYAL PURPLE makes animals digest these foods properly.

What we wish to impress on your mind is that we manufacture nothing but pure, unadulterated goods. Our booklet gives over 300 recommendations for our different lines from people all over Canada. While we give you above the names of a few who have used it, recommendation is for you to ask any person who has ever used any line we manufacture.

26

W. A. JENKINS MANFG. CO., London, Ont.

TO \$5.00 WE WILL PREPAY.



SYNOPSIS OF DOMINION LAND REGULATIONS

ANY PERSON who is the sole head of a family, or any male over 18 years old, may home the district of a quarter section of available Dominion land handsohe, Saskatchewan or Alberta. The solicent must appear in person at the Dominion Lands Agency or Sub-agency of the district. Entry person may be made at any agency, on certain modificant, by father, mother, son, daughter brother or sister of the intending homesteader.

Duties—Six months' residence upon and cultivation of the land in each of three years. A home-treater may live within nine miles of his homesteed on a farm of at least 80 acres selely owned and consided by him or by his father, mother son, canaditar, brother or sister.

In certain districts a homesteader in good stand-ing may pre-empt a quarter-section alongside his homestead. Price \$3.00 per acre.

Dutter-Must reside upon the homestead or pre-sides aix months in each of six years from date of homestead entry (including the time required to the homestead patent) and cultivate 80 acres

esteader who has exhausted his homestead A homesteader who has exhausted his nomestead that and cannot obtain a pre-emption may enter the a purchased homestead in certain districts.

Price \$3.00 per acre. Duties— must reside six mostly in each of three years, cultivate fifty acres and erect a house worth \$300.00.

W. W. CORY. Deputy of the Minister of the Interior. N. B.—Unauthorised publication of this adver-

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If you are troubled with stumps, give our"Patent Samson Stump Extractor a trial. It has now been in use in Europe for the past three years with the greatest success. By its assistance, two men will do the work of three men and a horse. It can also be used for felling trees.

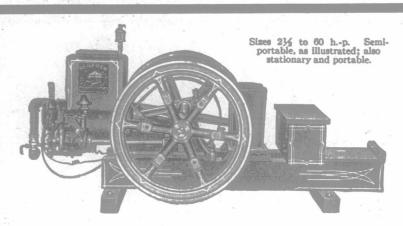
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GLONDON CONCRETE MACHINERY CO. Dept. B, London, Ont.



"That's the slickest engine I ever saw"

So remarked an agent who has handled many different makes of gasoline engines in the last twenty years, "Why," he said, "that special governor of yours would make any man want the

gasoline engine if he had no other reason for buying it."

The governor that the agent spoke so enthusiastically about is, we might say, one of the principal features of the Renfrew-Standard engine. It is undoubtedly the most efficient governor yet devised—immensely superior to the old fly-wheel type. It controls the engine perfectly, allowing speed to be changed at will while engine is running, and automatically cutting off the supply of gasoline and electricity from batteries should engine exceed speed for which it is set. The simplicity and durability of this governor also makes the Renfrew-Standard, engine especially adapted to withstand rough usage.

Other special features of the Renfrew-Standard are told about in our engine booklet. Send for a copy and learn what they are.

#### The Renfrew Machinery Company, Limited

Head Office and Works: RENFREW, ONTARIO Sales Branches at Winnipeg, Man., and Sussex, N. B.

If you want a little engine, write us about the Gifford 11/2 h.p. This is, we believe, the most effective and reliable little engine made.

# Reliable Help for the Fa

Farm labor is scarce. Wages are high. All the more need for a BARRIE ENGINE. Soon pays for itself in time and labor saved. Grinds grain, shells seed corn, pumps water, cuts straw, threshes beans, saws wood, drives churns, separators and washing machines. Does many other things, too.

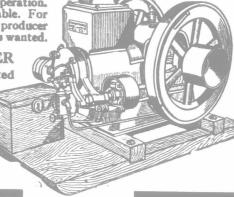
## ARRIE ENGINES WORK LONG

hours without getting tired. Very simple in construction. Reliable in operation. 3 to 100 h.-p. Stationary or portable. For gasoline, distillate, natural gas, producer gas. Write for catalogue. Agents wanted.

The CANADA PRODUCER & GAS ENGINE CO., Limited

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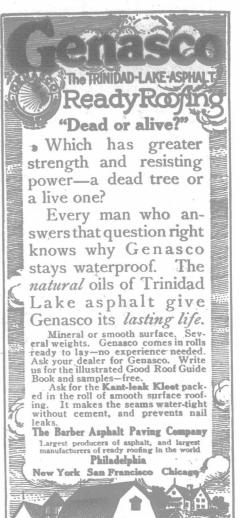
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Anybody can operate the simple "GOES LIKE SIXTY" Engine. Ready for work the moment you get it. Built strong and solid to last a lifetime. Will give long, unfailing satisfaction. Gas, gasoline or kerosene can be used for fuel.

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dependable service, great durability, highest economy
und perfect satisfaction; freedom from trouble, deays and expense.

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The "GOES LIKE SIXTY" Line has an engine for every purpose. All styles and sizes from 1 to 40 h.p. Write for catalogue

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can be cured, not merely of the habit, but of its cause. The Arnott Institute has permanently restored natural speech to thousands—is doing it to-day. Write for full information and references to:

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To settle all doubt about which is the BEST OUT-THROW DISK HARROW. we ask you to test the "Bissell" Out-Throw in a field competition with other Out-Throw Harrows.

The "Bissell" Out-Throw has many features that have made the name "Bissell' famous in connection with Disk Harrows. It has plates of the correct shape. One gang is set slightly ahead of the other. The gangs cannot crowd or bump together and cause the Harrow to rock when you come to hard soil—a new feature in Out-Throw Harrows. The hitch is well back, the draught is light and there is no neck weight.

The machine in actual use is our best advertisement. No need to send special travellers to sell the "Bissell." We put our name on every Harrow. If you would like to learn more about Disk Harrows, send to Dept. W for free booklet of both outthrow and in-throw styles.

T. R. BISSELL CO. LTD., ELORA. ONT.

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Make provision for an old age with independence while you are in the prime of life.

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CONFIDENCE is one of the most important and satisfactory considerations in every act and interest in life.

There is nothing the dairy farmer buys that is of as great importance to him as the cream separator, which SAVES or LOSES money in quantity and quality of product every time he puts

milk through it, TWICE A DAY, 365 DAYS IN THE YEAR, and lasts from six months to twenty years according to the durability of the machine.

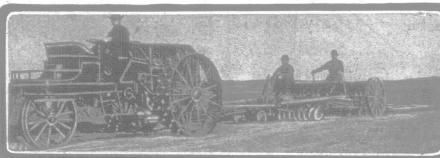
Hence the importance of only making so serious an investment with COMPLETE CONFIDENCE that you are buying THE BEST and that which will LAST LONGEST.

Every man who knows what a cream separator is knows that this is true of the DE LAVAL, the original and for thirty years the "WORLD'S STANDARD" cream separator. Somebody may CLAIM as much for some other separator, but no buyer can possibly have equal CONFIDENCE in its being so.

DE LAVAL DAIRY SUPPLY CO., LIMITED

173 William St., MONTREAL

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FVERY farmer realizes the importance of "quick action" at seeding time, and knows that delays at that particular time are very costly. The whole crop may be ruined through not being able to secure help or the sickness of or an accident to the horses.

The Hackney Auto-Plow solves all such problems satisfactorily. It will not only do the seeding when the soil is in the best condition, but also the

PLOWING, DISCING, HARROWING, HARVESTING, THRESH-ING, ROAD GRADING, WOOD SAWING, FEED GRINDING,

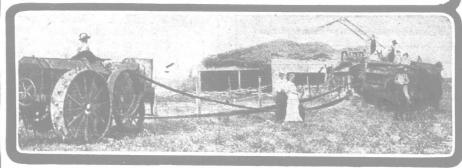
and all other work where power is required. It is a strictly ONE-MAN machine, a tireless worker night or day, rain or shine, and there is no "hold-up by the hired man" for the farmer who has a Hackney Auto-Plow.

Its successful performances in all parts of the country, in all kinds of soil, and under all sorts of conditions proclaim it the greatest labor-saving device for the farmer ever invented.

Write to-day for our catalogue, photos of machine and testimonial letters from users.

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BEST RESULTS ARE OBTAINED FROM ADS. IN "ADVOCATE."





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There are many good fratures in the BELL never found in other makes. Information in our (free) catalogue No.40, Send for it,

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TO FARMERS' CLUBS

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Tell us if you want "help."

Drop this office a line, and if necessary we will gladly come and see you and arrange details.

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This school is prepared to receive a limited number
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LONDON, ONTARIO, JANUARY 30, 1913.

No. 1062

#### EDITORIAL.

Are we going to have any ice harvest? The grain harvest was precarious enough, but at this writing it looks uncertain whether there will be any chance at all to put up good ice.

Barn building and remodelling is one of the livest topics of this season. As usual "The Farmer's Advocate" has been on a still hunt for plans and ideas. It will pay intending builders to watch our columns closely.

Not only is the number of silos increasing rapidly, but there is a noticeable increase in the average size, more especially the depth, of those erected from year to year, except where a second silo is being provided for summer feeding.

A water system is defective if it necessitates keeping the stable temperature always above freezing. Very few Canadian stables are well enough constructed and insulated to render this possible at all times without unduly sacrificing ventilation. Such a stable might be built but seldom is.

In building a silo by all means get depth. The more the better, so long as it is safe to build and practicable to fill. We prefer one deep silo to two small ones. On an ordinary hundred-acre farm we would not entertain the idea of building a cement silo less than forty feet high, and would seriously consider forty-five. The capacity of that lower five feet is simply wonderful, and this well compacted silage at or under ground level is just the thing for summer feeding. It keeps better than the looser silage out of the top of a narrower silo. Only a thin layer spoils between time of discontinuing feeding in the spring, and recommencing in July.

With the innumerable and endless round chores necessary on a stock farm, it is almost impossible for one man to do everything as he would like, and the temptation comes up to slight things. This temptation, if repeatedly yielded to, soon forms a habit of shiftlessness until one never has time to do anything right. On the other hand, let one insist on doing well whatever he undertakes, cutting down stock and reducing scale of operations, if necessary, and he then develops habits of thrift which save profits by avoiding loose ends. The idea that one has not time to take pains is about as insidious, and only a few degrees less mischievous than the idea some people have that they cannot afford to be honest. Neither is true.

The finest exhibition specimens are not always produced from the most successful or most profitable crops. The prize-winning Spy apples from our Demonstration Orchard in 1911, were grown on a diseased and dying tree. It produced large well-colored fruit, but not nearly so many barrels as healthy trees alongside. Similar to this is the experience of an Alberta farmer who bought wheat seed, sowed it on ordinary land, showed it at a local seed fair where it got nothing, being dirty, and sold for a dollar the bushel, which, when cleaned, won a world prize at Omaha. Exhibitions are all very well and serve an excellent purpose, but the most successful prize-winners are not always the most commercially successful farmers.

#### Neglected.

The winter months are really the constructive period in agriculture, especially in the matter of farm buildings, for it is during this period that plans for remodelling old buildings, or the erection of new structures, occupy the minds of the farmer contemplating improvements. Architecture is said to have a potent influence upon the generation, and there seems to be considerable truth in the statement, for are not a man's outbuildings, more than he often dreams, an indication of the personality of the man himself? whether or not the buildings have an appreciable effect upon the people of the age, they surely exert an almost unlimited influence upon whatever class of live-stock is housed therein. Our winters are of such severity that it is necessary, for the animal's welare, that it be sheltered and fed. This means stabling is necessary, and stabling in the twentieth century should mean the installation of a practical, efficient and comparatively inexpensive system of draining off foul air from and diffusing pure air through these stables. This artificial removal of confined air which,

has been subjected to the contamination resulting from perspiration, admixture of gasses and foul odors, present in all tightly closed compartments where animals are confined, is known as ventila-Ventilation is not a new word by any means. Farmers' Institute speakers, some of best live-stock men, the agricultural press writers without number, have been, for several years, putting forth every endeavor to spread enlightenment upon this subject. The old days, when it was thought necessary to exclude all fresh air from the stables in order that the animal heat given off by the stock could be retained for their comfort, and to keep the roots from freezing, are past. Walls, sills and joists dripping with the foul moisture from many lungs can ne er prove the ideal condition in which to keep stock. Consider for a moment that fresh air is just as necessary to the life of your livestock as is food and water. It has been estimated that a cow requires twice the weight of pure air daily that she does of food and water combined. Can she get it in a tightly closed stable? This means for a cow weighing 1,000 Ths. live weight, approximately 200 lbs. of pure air daily. Air weighs about .08 lbs. per cubic foot. Think what this means to the cow. Mechanical skill of the present day has made it possible to construct doors and windows which fit. The door, with cracks literally large enough for the cat to go through, and the windows which filled only a part of the hole in the wall left for it, are not seen in the newer types of stable. Consequently, unless provision is made for it, fresh air cannot gain entrance to the stable in any considerable amount.

Disease lurks in the dust floating in the air of the poorly ventilated stable, and the moistureladen ceiling and walls are a "paradise" for bacteria. Statistics show that bovine tuberculosis is far more prevalent in Northern and Southern countries. Why? Because the winters necessitate stabling of stock, and consequently they get less pure air. No other disease need be mentioned. Pure air is essential to health, aye, even to life itself.

under the walls, and outlets through the roof of would tend to keep down the price of milk and

the building. simply opening windows is not enough. It is necessary to get the pure air without causing draft. Windows with a proper means of deflecting the air upwards to break the draft may be used as inlets, but then outlets are necessary. Of course windows on opposite sides of the stable may serve as inlets and outlets according to the direction of the wind, but this plan causes drafts across the stable, and is not ideal. No window is a success as an inlet and outlet combined, and it is, by many, considered advisable to have a system of ventilation entirely independent of the window, whose primary object should be the admission of light.

Intakes through or under the wall, as the case may be, should be well distributed around the stable, and should be large enough, in total cross-section area, to allow at least 15 square inches per head of cattle or horses stabled. Outlets should not be less than 18 inches across, and should be placed near the center of the building, and open near the ceiling of the stable. Inlets should not be controlled. Unless the weather is very severe it is better not to leave such an important factor to a herdsman. Simply regulate them so as to prevent drafts. Outlets should be tight. Tongued and grooved lumber is good for this purpose.

Why this repetition of what may seem to be a hackneyed subject? Because, in many of our so-called up-to-date barns and stables, and those in almost every other particular first-class, ventilation has been neglected or ingored. Progress is being made, but not with the rapidity there should be. Give ventilation the consideration it should have in the new or improved stable.

## Cows, Prices and Profits.

A prominent speaker at the Western Ontario Dairymen's Convention in Woodstock, deplored the fact that our cheese exports are declining while our butter exports have practically ceased. He argued, by implication, that we should have some active organization aiming to increase the number and improve the quality of our cows. To the alleged lack of such effort, and to the culling process which is taking place in many individually-tested herds, he attributed part of the decrease in exports. A second reason assigned was the lesser profit of dairying as compared with some other kines, a dollar per hundredweight for milk not being sufficient to render dairying attractive.

The latter argument nullifies the first. The law of supply and demand sends prices down as production increases. This is particularly applicable to the case under discussion, because any considerable increase in milk supply would have to be exported as butter, cheese or cream, and the price of this exported surplus would be governed by cheese and butter prices prevailing in Great Britain. Milk used to produce this butter and cheese for export could not possibly net the producer very much above one dollar per cwt. on the average, and often not that. Moreover, the moment we accumulate a surplus of butter or cheese for export, home prices, in most localities, drop to the export level, and so the price of milk to all patrons of cheese and butter factories would be fixed by what could be paid those pro-How can it be had? All that is necessary is, ducing milk for the manufacture of export proin building new or improving old stables, to ducts. Furthermore, the establishment of lower put in a sufficient number of inlets through or prices for milk at cheese factories and creameries

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#### THE FARMER'S ADVOCATE AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED).

JOHN WELD, MANAGER.

"The Farmer's Advocate and Home Journal," Winnipeg, Man.

L THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.

It is impartial and independent of all cliques and parties,

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

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LONDON, CANADA.

cream for direct consumption. Nothing is more certain than that any noticeable increase in milk production beyond proportionate increase in home consumption would reduce prices and curtail profits. If then, prices are already too low, as stated affove, how will the producer's interest be served by organized effort to increase the number of cows and enlarge production? Cheese factories are already paying every cent they can pay for milk, under present market conditions. The only hope of substantially increased prices for cheese milk is a relative decrease in total milk production as compared to demand. Of course, from the standpoint of men having capital invested in and cheese factories, the case has a somewhat different aspect, but even they could have nothing to gain in the end by encouraging farmers to enlarge milk production at unprofitable prices. We are not in the least alarmed by jeremiads about decreasing agricultural production. Half the time production is not really decreasing after all, but merely seems to be because rapidly enlarging home consumption absorbs a big share of what was formerly a surplus for export. Da'ry Commissioner J. A. Ruddick, points out that the increase of two and a half million in population has helped to augment Canadian consumption of butter, cheese, milk, ice cream, etc., by thirty to forty million dollars' worth a year. He believes that, notwithstanding our declining exports, milk production in Canada has increased as much during the past decade as in any other ten-year period.

Anyway the situation is satisfactory from producers' point of view, and we hope will remain so. With efforts to improve quality and increase production per cow, we have every sympathy for that spells sound progress. With wholesale efforts to increase the number of cows we have no sympathy at all. Let supply and demand settle that. Samply and demand always have a way of working things out with better advantage to all parties concerned than could be effected by any system of human conception. Look to quality and individual profits. Let statistics take care of themselves.

#### YOUR SUBSCRIPTION.

Have you sent us your renewal subscription to "The Farmer's Advocate and Home Magazine"?

Our subscribers are our best circulation getters. They can conscientiously recommend it to others, feeling that \$1.50 cannot be invested in any other manner that will give as much pleasure and profit. The larger our circulation becomes, the better paper we can give our readers.

Old subscribers sending us two NEW names and \$3.00 may have their own subscription advanced twelve months; or, for your own renewal and one NEW name, we will accept \$2.50. In either case we expect the new subscriber to pay the regular subscription price of \$1.50.

New subscribers will receive a copy of the 1912 Christmas Number complimentary.

#### Dean's Dairy Drama.

Prof. H. H. Dean, of the Ontario Agricultural College, is original. Seldom a meeting of the Dairymen's Association passes without some startling new line of thought propounded by the redoubtable professor. Always it is entertaining, and often suggestive. At the recent Dairymen's Convention in Woodstock, he went, we should judge, about the whole length of his fertile imagination. He said if he were a millionaire, instead of a college professor, he would undertake to spread agricultural and dairy knowledge by employing, as agencies the moving picture show and the drama. Personally he would prefer the drama, where real persons, cows, appliances and products with suitable stage equipment "and all the necessary accessories of music, colored lights, comfortable seats, etc., which go to make strong impressions," would be utilized to teach agricultural and dairy lessons.

He then went on to detail the characters, from the farmer and his hired man who milk the cows to the English or Scotch consumer, and also the scenes, which ranged from the Canadian farm to the retailer's shop and the consumer's home. It was all very entrancingthrilling. It made such a vivid impression on the audience that the official stenographer already has a play worked up in his mind.

One thing sure, there should be no difficulty in ing made. obtaining local color. The stare manager could secure cows with ne rly all the shades of the rain ow, varying the breed to suit the district, thus appealing to local patriotism. Nor need he lack dramatic incident. An obstreperous brindle swishing her tail across the milker's face would be a real hair-raiser, to say nothing of the opportunity for dialogue. If anything more sensational were required it might be provided by a scene showing someone, preferably a minister, teaching a young calf to drink. The milkmaid of course would be requisitioned to supply romance, and altogether the first act should pass off quite successfully.

Just how the playwright would make out with the next two acts we are not quite so clear. There is nothing especially dramatic about a stack of boxed cheese, while in the consumer's home a good deal of dialogue would be necessary to keep things interesting. There is not much romance, tragedy or humor in a polite request to "pass the cheese."

The admission fee to this enthralling play was not settled by the author of the idea. It would be distinctly "infra dig." to travel about the country legging attendance, and we are not sure how much people would be willing to pay. Then again, we are not sure just how much effect the "strong impressions" would have in persuading people to test their cows and provide summer silage. Nor are we clear how the desired lessons could be enforced. But, no doubt, Prof. Dean and Mr. Con will work all these points out.

#### Nature's Diary. By A. B. Klugh, M. A.

In the study of nature, the keeping of careful notes is of the utmost importance. An observation should not be regarded as complete until it is recorded in permanent form, and in such a way as to be readily accessible when needed.

In the field a writing-pad and a pencil should be carried, and notes made on the spot. A very good and cheap pad is Hinsdill's Scratch Book, No. 4020. From the field pad the notes may be transferred to two books. The first book may be termed the "journal," and in it general nature notes should be written from day to day. This "journal" will prove very interesting reading to its author in after years, and will be found to contain many observations which have completely passed from the memory. of recording notes would do very well as the only form of record, if it were not for the fact that after a few years the notes in it cannot readily be found when needed. Therefore, in the main line or lines of observation, a loose-leaf "ledger" should be kept. In this "ledger" a page should be devoted to each species, and the pages arranged according to the classification used. Thus in the "ledger" for bird notes, the first pages would deal with the grebes and loons, and the last with the thrushes. As a further aid in quic ly locating notes little tabs, bearing the names of the families as (Fringillidae-the finch family) may be attached to the sheets on which the notes on each family begin, so that the tabs project. By using the loose-leaf system any number of pages may be added in any place require!, and the notes are always in order. Thin type-writer paper makes the best leaves for the 'ledger.'

There is another little book which is very useful in bird study, and that is a monthly timebook. In this the bird's name is entered in the "name column", and the number seen each day entered under the date. Thus what is called a "migration record" is kept, which will show when the species frst appeared, its commonness and the date of its departure. When a bird becomes common the letter "C" may be entered under the date, and "ditto" marks put under each succeeding day. If a flock too large to count the individuals composing it is seen, it may be recorded by the letter "F". If a bird is not common, but a good many individuals are seen on a certain day, then an "S" under the date will record the fact that several were seen on that day.

In observing birds a good field glass is a necessity. The best glasses are the prism binoculars or monoculars, but they are rather expensive. A field glass should be at least "eight-power." A telescope, while somewhat incon-A telescope, while somewhat inconvenient to use, is often quite effective, and small ones are comparatively cheap.

To obtain near views of birds it is necessary to learn to do two things-to keep still and to "call." The great majority of small birds may he "called" by making a squeaking noise with the lips, much as one calls a dog. The 'call' can oft n be improved by bringing the back of the hand against the lips while the squeak is be-

There are several books which are useful for identifying birds in the field. easiest one to use is the "Color Kev to North American Birds" by Chapman & Reid, in which the birds are divided into classes according to their co'or, and which contains small illustrations in color of all North American birds.

There is one point, in connection with bird study, which cannot be impressed too strongly upon the beginner in this fascinating pursuit, and that is to be absolute'w sure of the identification of a hird before recording it. Far better no record than a doubtful one. Guess work has no place in natural science.

#### Government Assistance in Drainage

Editor "The Farmer's Advocate":

Your advocacy for the removal of the duty on ditching machinery should have the support of every one interested in the agricultural progress and developments of our province, and I sincerely hope that our Dominion Government may take immediate action and aid the farmer by allowing drainage machinery to enter duty free.

Even with its removal the cost of a machine is almost out of reach of the ordinary farmer, viz., \$1,400 to three times this amount at the factory on the other side. This being the case our Provincial Government might come to the help of the farmer, and assist him in some practical way to get his land drained by machinery, as it is next to impossible, in the great majority of cases, to

get it done by hand. As governments and corporations can usually borrow capital more cheaply than individuals, arrangements might be made whereby some capande persons, in certain districts, could be furnished with a suitable machine by the Provincial Department of Agriculture, they making all areeded. cil should tch Book, es may be ook may eneral nato day. ting readl will be nich have This style as the the fact it cannot re, in the loose-leaf " a page the pages on used. the first

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an usually ndividuals, some capild be fur-Provincial ng all arrangements with regard to terms of payment, etc. I believe a number of these machines, operating in our counties, would be an inspiration and encouragement to our farmers, and perhaps help to stem the tide city-ward and west-ward, which, in the past, has been flowing so steadily

**JANUARY 30, 1913** 

Middlesex Co., Ont. W. S. LAIDLAW

# HORSES.

#### Stallion Enrolment and Inspection.

That there is a very general desire amongst those interested in horse breeding, for the Government control and regulation of sires, kept for public service, is according to Dr. F. C. Grenside, V. S. of Guelph, Ont. who delivered the following address at the Ottawa Live Stock Show, strongly evidenced by the fact that there is a pronounced movement on foot in all parts of the world, and particularly on this continent, for such action. It is significant that the chief source of this movement originated with the stallion owners themselves, for they, of all men, knew the injurious effects upon the horse industry of the indiscriminate use of sires.

Undoubtedly all know that we now have in this province of Ontario an act in force, called the "Stallion Enrolment and Inspection Act," Having accomplished so much, time will not be wasted if those who are interested in the horse industry, study this act from all stand-points so that a correct perception of it may be pretty general amongst them. There are doubtless those who think this an unnecessary piece of legislation, and are inclined to denounce it or be over-critical about its provisions and enforcement. There are doubtless others that are too optimistic with regard to the benefits likely to result from it, and look upon it as a panacea for all the ills that have been known to exist in connection with the horse-breeding industry. If a temperate, unbiased, and reasonable view is taken of it by one who has gone to the trouble to inform himself thoroughly as to the provisions of the act, first knowing the conditions it is sought to improve, he cannot but conclude that some good will result from its enforcement.

To those dissatisfied with it there is encouragement, in knowing that its provisions can be modified. Of the benefits likely to accrue from its enactment and enforcement not the least is the educational result.

It may first of all be explained that literally speaking the unsoundnesses generally considered as hereditary ones, are not in evidence as a rule at birth and possibly not for months or even years afterwards, so that it is not the diseases that are inherited but it is the tendency or predisposition to their development, that is handed down from parent to offspring.

It is interesting and important in studying this question, to endeavor to get a correct under standing as to what constitutes this tendency or predisposition to unsoundness in horses. Some good authorities take the view that some sires and dams possess a peculiar habit of body, scientifically called a constitutional diathesis which renders them liable to the development of some such unsoundness as ring-bone, spavin or sidebone. There is no way of pointing out or determining the existence of this constitutional peculiarity or tendency except the developed unsoundness.

It is worthy of note also in this connection, that the existence of a side-bone or spavin is not positive proof of it being inherited. These diseases sometimes result from accidental or exciting causes without any evidence pointing to

Personally I am a believer in the habit-of-body theory; but I am of the opinion, that the tendency to unsoundness handed down from parent to offspring is due to one or more of four predisposing causes, so that I divide them into four heads.

First, and most important, is defective formation; second, deficiency of tissue; third, defective quality of tissue; and fourth, temperament. The existence of any or all of these predisposing causes, is more or less apparent to the sense of sight, and the eye of the practiced horseman can as a rule detect their presence.

A few examples may be given to prove the cor-Take for example, rectness of these disisions. ring hone; the two formations of pastern in which it is most frequently observed are the long slinder oblique pastern usually resulting from strain, when the high form of ring-bone is usually met with, and the low variety of that disease, when the disease involves the joint just at the to the development of cracked heels, stocked legs, core of and usually occurs in the straight, coars, upri in pasterns, due to concussion, or larring work. Solints are not usual'v included tenderey to them is undoubtedly transmitted from the swell up from little cause, but pury par. tha

side of a shank bone, due to the fact that con- practical horseman must, we must admit that cussion or jar takes effect there instead of the inside of that bone, the usual seat of splints in a horse that does not toe-in. If a plumb line is dropped from a horse's shoulder it will pass down in a slanting direction across the inside of the shank bone, showing the centre of the line of weight, and will pass over the usual seat of splint. In some horses that toe-in markedly a line dropped in this way will pass down slantingly across the outside of the splint bone, showing that the direction of the line of weight is altered by formation. These peculiarities of formation are pretty faithfully handed down from sire or dam to the progeny and thus the tendency to some peculiar unsoundness may be transmitted.

Take as another example, what is called a Curby Hock. Though there may be no well defined curb there is the weak formation which gives the tendency to the development of curb on slight provocation. A curby hock may be described as one of small circumference at the lower part of the joint, or what is usually described as "tied in below" with the point of the hock dipped forward, and the tendon at the back of the hock not standing out prominently behind it.

Under the second division we spoke of a deficient quantity of tissue or what horsemen often refer to as lack of timber in the limb. Size is strength, other things being equal, so that disproportionate lack of tissue in the limbs is a source of weakness and unsoundness, all of which may be inherited.

The experienced horsemen know that disproportionately small feet seldom stand much wear and tear and remain sound. Small hocks and small joints generally are predisposed to un-

coarseness, or lack of quality, is by no means an unimportant factor in contributing to hereditary predisposition to unsoundness.

Temperament is the last of the four heads into which we divided the predisposing causes of hereditary unsoundness. Although it must be admitted that it has an influence, we look upon it as the least important of the four. The nervous horse that jumps and gets excited on slight provocation, the anxious horse that is always up in his collar and against the bit, are more taxing on the physicial mechanism than easier-going horses. We cannot afford to quite ignore this question of temperament in selecting sires and dams, but if the legs and feet are well formed, have sufficient substance and are made up of a good quality of tissue, they will generally stand any taxing that may result from a high-strung temperament.

#### Stocking.

A tendency to swelling of the legs or "filling," generally called "stocking" exists in all horses under certain conditions. While the tendency is greater in heavy horses, light ones are by no means exempt. Horses of any class that lack quality, those whose legs are inclined to be meaty rather than hard and flat, are more predisposed than those of good quality. Of course, a swelling of the legs due to actual disease or injury is frequently seen in all kinds and classes, but we refer to the conditions when it occurs without apparent cause, and, while not generally considered serious, is liable to result in disease if it continue for any considerable length of time. It is due to sluggish circulation in the vessels of the extremities, but just why circulation in

the limbs should become s luggish in so many cases is somewhat hard to understand. When horses that have been on pasture or at regular work are kept idle in the stable, when the weather becomes cold we conclude that the filling is due to lack of exercise. but the trouble frequently occurs without any appreciable cause. It is more common during early fall than at any other time, but in many cases persists during winter. Some horses are so predisposed to it that it is almost impossible to prevent it without constant attention and care. There are many predispesing causes. Some horses are congenitally predisposed on account of their conformation as mentioned. high reeding on grain and lack of exercise, either combined or singly, are predisposing causes, and, on the contrary (paradoxical as it may appear) the opposite condition-that is, insufficient



Jeanne [2943] (87145).

Percheron mare; three years old. First in the open class at Guelph. One of several good mares in the sale of Dr. T. H. Hassard, to be held in Toronto, February 5th, 1913.

There is perhaps no defect of the soundness. hock joint which is more strongly predisposed to unsoundness than lack of size in that joint.

In addition to formation and quantity of tissue, "quality" is of vast importance in influencing the wearing ability of the legs and feet. Parents transmit with great faithfulness to the r progeny defects in the quality of the horn of hoofs. Shely, brittle hoofs are strongly predisposed to crack, developing sand and quarter cracas on slight provocation and giving rise that very troublesome inability hold the shoe tightly. Brittle hoofs are not necessarily coarse in fibre. Hoofs of coarse fibre lack the denseness of structure which generally contributes to toughness. Undue size of feet, low hee's and dat soles, with a tendency to be easily bruised, are apt to be associated with a lack of quality in the horn structure. A horse with bone of a spongy character or lacking in density is deficient in quality. Such an individual is predisposed to inflammatory diseases of the hone, such as splints, sore shins, ring-bone and spavin.

The lack of quality in a horse is particularly well shown in the skin of his legs. The tendency wind-feer, and grease, is very evident on s'ight provocation. Sires deficient in quality are apt to transmit to their progeny what are called soft less Est of hereditary unsoundnesses although the in a left there is not only the inclination of the to offspring. Take the case of a base sheat's of tendons, and boggy bocks are easily consein markedly and if he develops a substrain has b. If then, we accent the statements with

supply of food, often has the same effects. If is not uncommon to notice a poorly nourished horse, one generally out of condition, whose legs become filled during the night, neither is it seldom that we notice a well-nourished, well-fed, wellcared-for horse often the same way. When this abnormal condition is not the result of disease or injury, the swellings become dissipated after the animal is exercised for an hour or two. The swellings are due, as stated, to sluggish circula-Exercise increases the circulation and stimulates the absorbents, and the exudates that caused the filling are absorbed and carried away, thus reducing the enlargements. While the condition may occur under well-advised and apparently careful treatment, poor attention and faulty digestion are fertile causes. Horses whose bowels are somewhat constipated, though not sufficiently so to cause actual disease or visible distress, are prone to stoc't. Hence, preventive measures are advisable. When horses that have been at steady work and heavily fed on grain are changed to a period of partial or total idleness, the grain ration should be greatly reduced and some means should be taken, especially for the first few days, to give them some daily exercise. In other words, violent changes in food or usage should be avoided. On the other hand, when horses have been running on grass, or under other conditions getting little or no grain and change of conditions renders it necessary to feed grain, the change should be made gradually. We have on former occasions mentioned sudden changes of or seemts, they will usually be found on the out regard to quality as it would appear that every food as being very liable to cause acute diges-

tive diseases, but are now discussing them simply in regard to their influence upon the conditions under discussion. Whether horses be idle or at work, care should be taken to keep their bowels in a reasonably laxative condition. We do not mean that a condition of semi-diarrhoea should be maintained. A protracted state of this nature might induce the very condition we are trying to avoid. Most of us have noticed that stocking is not so common in summer time as in fall and winter, even though the horses are re-ceiving practically the same treatment. This is largely accounted for by the fact that during the seasons when the grass is green, most horses, though not actually on pasture, in one way or another get an occasional mouthful of grass. which has the laxative effect noted. At seasons when this laxation cannot be obtained a substitute should be provided, and this substitute should not be drugs. The too common idea of teamsters and owners, that a periodical dose of medicine is necessary to keep horses right is irra-tional and harmful. A healthy horse requires no medicines, hence the main point is to keep him healthy. Hay and oats are of course the foods principally depended upon to produce the necessary vigor, muscular, respiratory and nervous, but something else is required to satisfy the appetite and digestion. This "something else" should be both tasty and laxative. Nothing better can be given than a few roots, an ordinary sized mangel or turnip or a couple of carrots given once daily, preferably at the mid-day meal. If large quantities of roots are fed to working horses the laxative effect becomes too marked, and there are some horses which cannot be given them even in small quantities without that result; such horses of course must be treated accordingly. When roots cannot be procured, or incases where they cannot be fed without undesirable results, a feed of scalded bran, a couple of times weekly, or a little linseed meal once daily, or even a little raw linseed oil mixed with the food once daily, will give good results, or where it is not expedient to feed anything but hay and grain, a feed of boiled oats or a little boiled harley will probably answer the purpose. In few words it is, in most cases, necessary to make some slight deviation from dry hay and oats in order to keep the bowels acting properly. It may be hard to understand, and some will deny the fact, "that horses fed on rolled oats are not so liable to either digestive or leg trouble as those fed on The writer has not fed a bushel of whole oats. whole oats in 20 years and while his horses have during that time been solely used for road or sad-dle purposes, he has never owned a horse that was washy or would purge when driven.

A few-words about curative treatment. Where a horse has reached that stage when he "stocks" it is good practice to act upon both bowels and kidneys. A purgative of 6 to 10 drams of aloes (according to size of patient) and 2 drams of ginger should be given. After the bowels have regained their normal condition a dessert spoonful of saltpetre should be given in damp food once daily for 3 or 4 days to act upon the kidneys. Then the animal should be fed as indicated given regular exercise. Hand-rubbing the legs frequently gives good results and if stocking persists the application of woollen, or other bandanges that are slightly elastic, moderately tight, gives good results. The bandages can, if necessary, he left on all the time the horse is at The slight pressure and warmth they supply stimulates the circu'ation and tends to prevent filling. WHIP.

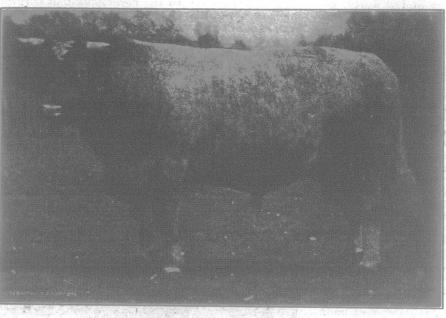
#### Breeding Horses for Profit.

Four points which the farmer must watch carefully in profitable horse breeding, according to John Gardhouse, Highfield, Ont., who gave an address on this subject at the Eastern Ontario Live-Stock and Poultry Show, recently held in Ottawa, are breeding, feeding, producing feed and getting work from the colt.

To make satisfactory returns it is necessary to breed the horse, which is likely to be grown up to saleable age, at least cost, and the one which is the best seller on the open market. Mr. Gardhouse believes the average farmer can make more money out of the Heavy Draft horse than out of any other class, because there is a lasting good demand for this kind of horse, because the mare best suited to produce this type of horse is just the type of mare best suited to do the work on the farm; because the colt, from such a mare, is so constituted as to be able to earn his keep during a great portion of his growing period, and because the average farmer has not the time nor the experience necessary to most efficiently raise, train and break the highest and most valuable type of light horse. Surely these are four sound reasons. There is a better and steadier demand for the heavy draft animal than for the common type of work horse, and the average farmer can produce nothing but the comparatively common class of the latter type. It

is necessary to get a certain amount of work out of the brood mare, and undoubtedly the drafter is the most valuable for this purpose.

Mr. Gardhouse believes that better results invariably follow the judicious working of the infoal mare. This judicious working of the brood mare and the growing colt reduces very perceptibly the cost of producing feed which, in these days of high prices, means much in the net returns of raising colts for sale. Under present conditions Mr. Gardhouse believes that every average hundred-acre farm should raise, at least, three heavy draft colts every two years. This means one team of good heavy-draft brood mares to each 100-acres. These mares need not necessarily be pure-breds of any of the well known breeds, but should, at least, he a good type of the breed of which they are grades, be free from all hereditary unsoundness or diseases and should be mated with



Tehidy Robin Hood. A winning Shorthorn bull in England.

the best sire available, and which is especially strong in the particulars in which the mares are If such a system were followed on every 100-acre live-stock farm in this country, what an improvement there would be in the general standing of Canadas horse breeding.

#### Curing a Puller.

Editor "The Farmer's Advocate":

In reply to the question in regard to the overdraw reins for a puller, I would not advise my farmer friend to go to the trouble and expense



Aberdeen-Angus Bull "Metaphor." Champion of the Royal Show in England, 1912.

the stall of all straw and manure to prevent him habitually careful in his statements. If his exgood and strong. Get a good stout rope and of great importance. tie him around the neck (tight enough just to allow him to breathe). Now get out of his way and let him puli till his heart's content, and I can assure you he will soon get sick of it. I have cured an exceedingly bad puller in this way. Muskoka, Ont. R. V. KNIGHT.

One of the worst defects of conformation in a horse according to Dr. F. C. Grenside, V. S., of Guelph, Ont., is toeing-out very badly.

#### The Farmer's Horse.

While the farmer who can afford it may wisely keep for the use of himself and family a roadster or carriage horse, or a general-purpose animal, it will be generally admitted that the heavy draft team is the best suited for farm work and the drawing of heavy loads. The demand for this class and the high prices available for them in the market render it most profitable for the farmer to breed and raise the heavy horse. For size and weight the Shires as a rule take the lead and, but for the extreme hairy-leg fad pre ailing in the country of their origin and apparently favored by the judges at leading shows there, the Shire would be the ideal heavy-draft horse. Given the clean flat bone, and sloping pasterns and moderate

amount of silky hair on the legs of up-to-date Clydesdales, the Shires would no doubt win the competition for heavy drafters. The need for further improvement in this particular is evidently being acknowledged by many of the Shire breeders in England, as evidenced by discussions in the farm journals in the Old Country, protesting against judges' awards being largely based on the quantity of hair carried on the legs. It is beyond dispute that the Shire has vastly improved in the last decade in the feet and joints, and if breeders but turn their attention to improvement of bone, ankles, and quality of feather, rather than quantity, there is no reason why they may not produce the ideal drafter.

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The Clydesdales have won popularity and made good in Canada, as in their native land, and have been largely imported and bred throughout the Dominion, giving general satisfaction, but are evidently likely to have strong competition for favor in the Percheron breed, numerous importations of which have been made to Canada within the last year or two, making a favorable impression as a useful and efficient farm horse, with strong back, clean limbs, and good temper. The question of how they will cross with the general classes of mares in the country remains to be tested, but judging from their success in of getting them. If you have a puller, first clean that respect in the United States and the splendid

showing made at the leading shows in that country it augurs well for their future record in the Dominion.

The prospect for a continued active demand and good prices for heavy horses indicates that our farmers may find the breeding of this class of stock among the most profitable if judiciously manared.

The attention of horsemen is particularly drawn to "Whip's" observation, in this issue, that horses fed on rolled oats are not so subject to digestive or leg trouble, as those fed on whole oats. He adds that he has not fed a bushel of whole oats in twenty years, and has never owned a horse that was washy or would purge when driven. Whip is an experhenced veterin-

getting a foothold. See that your manger is perience on this point is general, the matter is What say others?

> Countless crimes are committed in cow stables. The lives of thousands of children and of some grown people as well have been sacrificed by carelessness in milking and handling milk. Be tidy; he clean; and keep the cows so.

> The price of hogs this year is something like business. How they kept so low last winter was a puzzle.

**DED** 1866

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# LIVE STOCK.

#### Why Canada Should Produce Beef.

A few points from an address by Robert Miller. of Stouffville, Ont., at the Ottawa Live-Stock and Poultry Show:

Canada's population is increasing rapidly, but statistics prove that her beef cattle are decreasing in numbers.

It is absolutely necessary for every farmer to keep cattle of some kind.

We have a growing home market. Two years ago market quotations showed choice export cattle to be worth from one to two cents per pound more than butchers' cattle. To-day very few export cattle are offered at all and the top of more than butchers' cattle. the market is reached for best butchers' cattle.

Export buyers cannot compete with the prices being paid for cattle for home consumption, as prices paid in Great Britain do not leave them sufficient margin to pay them to ship these.

Beef raisers make profitable returns in Great Britain on much high-priced land than that being farmed in Ontario, but on land no better for beef production.

Because our land is less valuable our feed is produced at smaller cost.

Many farms are becoming less productive year after year. Beef raising would check and overcome this loss.

Good live stock is necessary to change the raw material produced on the farm into a marketable

product at a profit. We must supply food for the people, and there

is none better than first-class beef. There is sure to be a growing demand for good beef cattle, and to the man favorably situated for producing them, nothing could be more profit-

#### Tuberculin Testing in British Columbia.

In a recent issue of a Canadian contemporary there appeared an editorial criticism of the new Dominion regulation relating to the tuberculin testing of pure-bred cattle received for shipment to British Columbia. The article appeared to be somewhat misleading, and the writer apparently assumes that this is the first step taken to eradicate tuberculosis from the herds of British A brief resume of work already done Columbia. would not be amiss.

We beg to state that the regulation in question was not "recommended at the instigation of the veterinary profession of the Pacific Pro-At the request of the farmers of the Province, the Provincial Department of Agriculture began the work of eradicating bovine tuberculosis in 1909, and consistent efforts have been put forth ever since that date. The progress made has been even greater than was anticipated

extent of one-half of the value of the animal. The maximum valuation, however, is limited to \$75 in the case of a grade animal, and \$150 in the case of a pure-bred.

Looking at the situation from all standpoints, we cannot believe that an unprejudiced person can see any injustice in the regulation. the farmers and stockmen of British Columbia have the right to purchase healthy animals. Furthermore, we believe that, indirectly, the regulation protects the breeders in other provinces. Should a farmer of British Columbia purchase an expensive pure-bred animal, and shortly after have it condemned for tuberculosis, neither he nor his neighbors would be likely to purchase another

from the same source. We sincerely hope that in the very near future the regulation will be amended to include all animals shinged into British Columbia except those brought in for immediate s'aughter.

Quoting from the editorial: "This regulation stribes at the very foundation of this (inter-provincial) trade, and, if allowed to remain in force, will deal a death-blow to live-stock trading between the different provinces." Surely not. We do not believe it is fair to the live-stock industry of Canada to insinuate that in any part of the Dominion there are not enough animals free from

cally eradicated. Diseased animals are slaughter- tions, and our inspectors give instructions ed, and remuneration made to the owners to the as to how the sanitary conditions may be improved.

In conclusion, we would venture the opinion that, in addition to giving protection to the British Columbia farmer, the new regulation will stimulate trade between this province and the other provinces of the Dominion. Furthermore, it will lend encouragement to the breeders in other provinces who have been keeping their herds free from the disease, and, in general, should encourage the fight against bovine tuberculosis. We are convinced that the new regulation will be welcomed by all progressive cattle-breeders as an important step in the right direction, and trust that what British Columbia has been able to accomplish may serve of value to the other provinces, indicating, as it does, that bovine tuberculosis may be successfully combated.

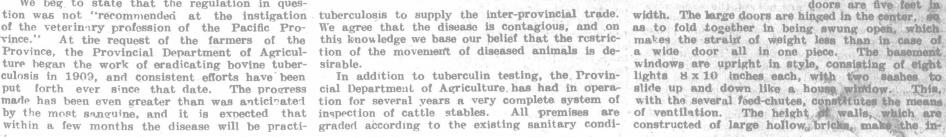
Victoria, B.C. W. T. McDONALD, Live-Stock Commissioner.

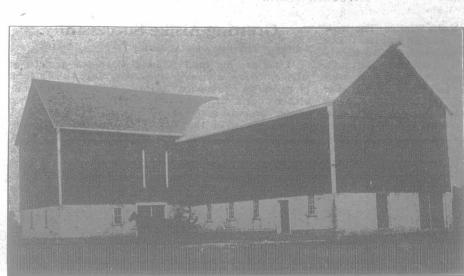
## THE FARM

#### "L"-Shaped Barn for 100-Acre Farm.

The accompanying illustrations show the exterior appearance and basement and upper floor

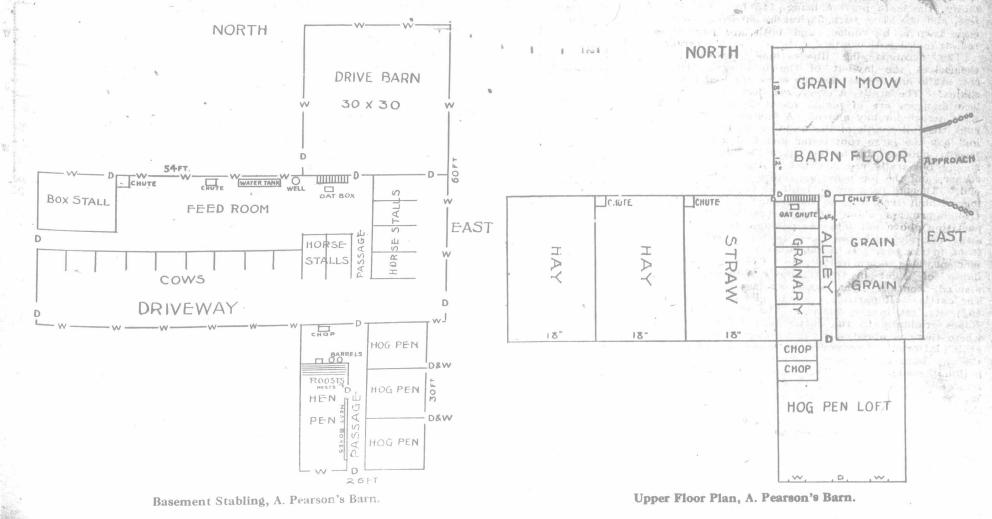
plans of a barn in satisfactory use for a couple of seasons on the farm of Alonzo Pearson, Middlesex County, Ont. The .'L' type of construction has features of convenience that commend it to many being often especially advantageous in case of joining two old barns to sether, rather than making a wider structure in rectainment shape The erge doors at either end of the stable passage way drive-shed are about eight feet in width to admit of a team passing through in clearing out the manure. The smaller





A Handy L-Shaped Barn. Property of Alonzo Pearson, Middlesex Co., Ont.

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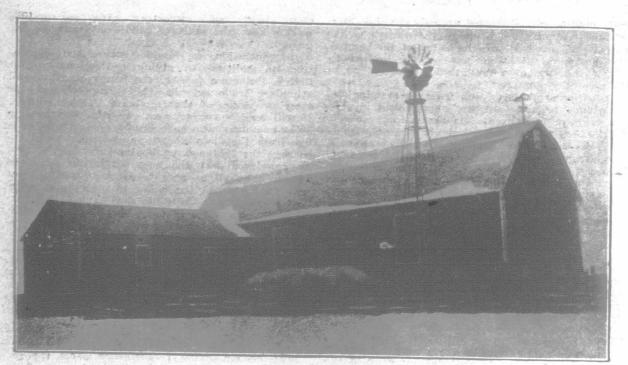
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Mr. Jewell's Barn.

terior roomy and it is well lighted. stalls are double and horse stalls single. apparently rather large feed-room is put to handy times in the storage of corn, fodder, etc. The hor and hen house combined under one roof a small story-and-a-half building joining the south-easterly part of main stable. A close board partition separates the hens from the hog pens, and the had access to separate yards. Large windows to the south give the hens plenty of sunlight. Through the loft above straw for hog bedding is received conveniently from the The main features of the lay-out above and below are apparent in the plans.

#### Barns for One Hundred Acres.

The winter season, with its long evenings and chores, is the time in which most farmers contemplating improving their buildings plan the work of building during the coming summer. Barns and barn-plans are accordingly exceedingly interesting at this time, and the number of queries coming to this office at this season proves the statement. All farms are not of the same size, and conditions on no two farms are identical, consequently we purpose publishing a few plans, from which those who are improving their stables may get some few hints applicable in their case.

very good barn for a one-hundred acre farm is that of W. E. Jewell, situated in Durham Co., Ont., and the plan of which is reproduced herewith. The farm of 105 acres Mr. Jewell operates on the mixed-farming basis, keeping considerable live stock. One barn in the shape of an "L," as shown, the main portion being 115 feet by feet, and the horse barn 55 feet by 30 feet. barn is hip-roofed, and both are painted trimmed with white.

The accompanying illustrations explain in themselves the lay-out of the buildings. cow stalls are double and the cows are tied with chains. The stalls average six feet in width. The mangers are of plank, about 21 feet wide, with a rack for hay above. A passage as shown runs the full length of the building up the center and has the large root cellar and feed mow adjacent, making the feeding quite handy. Two roomy box-stalls are situated in the north-west corner, and the pig pens as shown in the east The pig pens are so built as to allow feeding without trouble from the pigs. The cement trough projects about three inches beyond the partition above out into the passage, thus doing away entirely with the necessity for a swinging front in the pen. It is inexpensive and entirely efficient. As shown in the plan, there is an abundance of light in this stable. Windows, as marked, contain light panes of glass 8 x 10 in. The cattle stall partitions are of plank, fastened to posts, set in the cement. The rear passage slopes gradually to the gutter behind the cows, where there is about a six-inch drop from the stall platform. Two doors, as shown, lead from the cow barn to the horse barn, which is an o'd building made over. The plan shows the feed room and the stalls, including the two lox stalls in the south end. Hay and feed are stored in the loft above. The barns are both placed upon cement block walls, plastered inside, and eight feet high. The floors are all cement.

There are two 14-foot drive-floors in the barn, with bays on either side and in the center, and the granary in the center. This is a very fidy set of buildings for a 100-acre farm, and lacks but one thing—a system of stable ventilation.

## Growing Alsike Successfully.

Editor, "The Farmer's Advocate":

I believe my land is adapted to the growth of alsike, being a heavy limestone clay. is carefully prepared before seeding. either corn or root ground I sow with either barley or oats seven ibs. per acre of the best seed procurable. In the fall I pasture the alsike before the frost comes, and roll early in the spring.

When the seed is ready to cut I allow it to stand a few days then cut with a reaper. The reaper sets the bundles off with heads up, so that a shower of rain causes very little, if any, damage. I do not turn the alsike after rain if possible to avoid it, simply lift the bundles and allow the air to pass under them. The alsike is drawn in as dry as possible, and threshed the last of September.. The seed is sold to the buyer just as it comes from the clover roller.

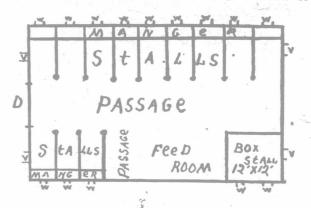
WALTER E. CURTIS. Victoria Co., Ont.

Another correspondent writes on the same subject, that to grow alsike the land must be clean and strong. To get this he prefers a bare summer fa'low the year previous to sowing alsike, or at least a good hoed crop with manure. He does not believe it possible to get the land too strong, citing a case where he sowed the crop after a grain crop and also after a summer fallow, the latter being a great success while the pounds of seed per acre, and prefers barley as a

nurse crop, although he has had good success with some other grains. A self-rake reaper is used for harvesting the crop. This machine leaves the crop in such a condition that it does not hold the rain, and even last season this correspondent did not have to turn his alsike to get it dry. The seed was cleaned before selling. This man had 190 bushels the past season, which will net him a - neat sum of money. There is money in clover seed.

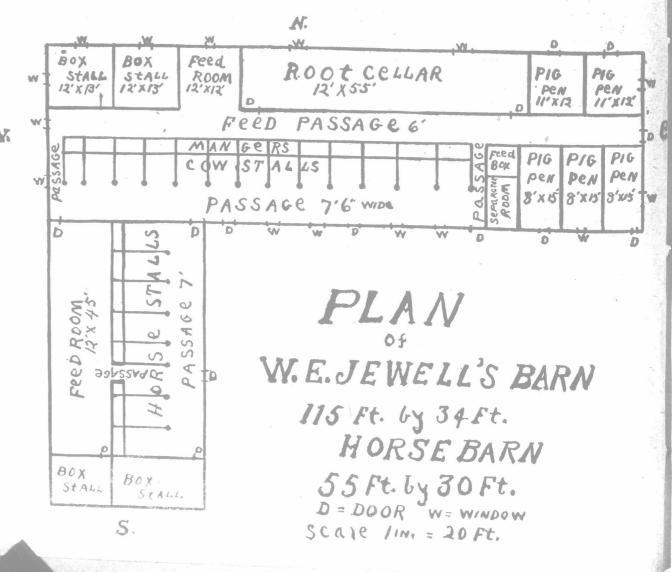
#### A Work-horse Barn.

On farms where several work horses are kept, it is advisable to have a fairly good barn for their comfort during feeding and rest hours. barn of this kind may be seen on the farm of Col. Sir Henry M. Pellatt in Ontario County. This barn is hip-roofed with a large hay and straw loft alove, and is 58 feet long by 35 feet wide. A passage twelve feet wide runs down the center of the barn and, as shown in the plan, there are nine stalls on one side and three on the other, the remainder being utilized as a feed room, a passage and a box stall for ailing horses. There is a ten-foot double door in the south end of the passage, permitting a team to be driven in before being unhitched. A square window, 2 feet by 2 feet, is situated directly in front of



Sir Henry M. Pellat's Work-horse Barn.

each horse, and ventilation is secured through two small square ventilators in each end of the stable, which works on the same principle as a furnace register. Each horse stall is nine feet long from the manger to the end of the heavy plank partition and six feet wide. This gives plenty of room for the horse's comfort, and ensures no injury from kicking. The manger edges and grain boxes are covered with galvanized iron to prevent the horses from chewing them, and the hay mangers have a plank bottom some little distance from the cement floor, which is covered under the horses with heavy plank. The box stall is twelve feet wide, and is to be utilized as a hospital. A part of this barn shows in the former was a failure. He sows from six to seven illustration, on another page, of the large barn and implement shed.



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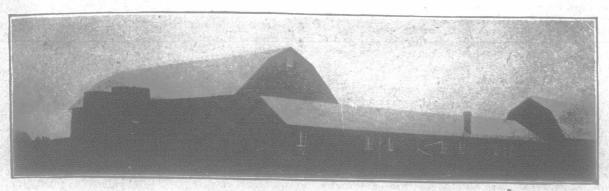
A large stock farm requires a large cattle barn, and such is the barn situated on the 560acre farm of Col. Sir Henry M. Pellat in Ontario County, Ontario. This barn is 160 feet long and 52 feet wide, and the stable is devoted entirely to cattle, as shown by the plan. The floor is of cement, as are also the walls. There are, as shown, 78 single cattle stalls, where the cattle stand tied with stanchions facing the light. The passage behind the cows is 6 feet wide, those in front 51 feet wide. Mangers are of cement. with a rounded bottom to prevent dirt sticking in the corners. They are about 3 feet wide on top and 2 feet 6 inches high in front. They are washed out regularly with water

from alfalfa. Having six acres of corn that could not be got off the field on account of the wet in time to put in silo, I cut about four acres of alfalfa and stacked at cutter the same day. The next day we filled the silo, keeping one man on stack to fork the alfalfa on to the corn as it went through the cutter at the rate of about one ton of alfalfa to six or seven tons of corn. There were four men in the silo all the time tramping and the silage is turning out in perfect condition. We opened the silo, which is 14 x 30, on Nov. 10th. There were about four inches of waste on top. After that we did not lose one pound; there was not a mouldy spot in it, and the cattle seemed to relish it even better than the corn alone. I consider that the two articles mentioned have more than paid for the subscription

advantage in the month of July on a summer fallow, providing there is sufficient moisture for good germination. This is a good system to follow, providing the land produced a crop of grain or was a sod in the year previous to the sowing of the alfalfa seed. It is nearly always wise to seave the alfalfa

undisturbed the first autumn. If there are weeds, however, which are likely to go to seed, or if the crop is so heavy that there is danger of smothering in the winter, a mowing machine can be run over the field so as to cut the tops of the plants, which could lie as a mulch on the field.

The alfalfa should be cut just as it is starting to blossom, and great care should be exercised to cure the alfalfa so as to retain the leaves.



A Large Cattle Barn. Showing also implement shed and part of horse barn.

and the cows are watered from them. The whole of the paper alone, and wish you a very prosperis equipped with feed and litter carriers. Box stalls of good size, as seen by the plan, are situated on the north side and east end. A root cellar is conveniently placed between two feed rooms, each leading to a cement silo 16 feet in diameter and 30 feet high, which are placed one each side of one of the barn approaches, as seen in the illustration. Ten windows are placed in the south side, three in the east end, seven on the north side, and two in the west end, ensuring plenty of light, as they are 3 feet by 4 feet in size. They are hinged so that the top half may be let down to admit fresh air, but there are no ventilation outlets. The drop behind the cattle is eight inches and the gutter is 18 inches wide. One of the calf stalls as shown has a manger which projects into the passage. This is fitted with galvanized partitions, which may be pulled up by weights so as to be out of the way when cleaning the mangers. -All fittings, including stall and box-stall partitions, are metal. Study the plan carefully, as it has some very good features.

#### Mixed Corn and Alfalfa Silage.

Editor "The Farmer's Advocate":

Please find enclosed P.O. for \$1.50, subscription for "Farmer's Advocate" for 1913. Might say that I take great pleasure in reading "The Farmer's Advocate," particularly the practical part of it, and am indebted to the publishers for at least one very good contrivance-viz., the hood and pipe for distributing ensilage corn in the silo. I procured the galvanized iron and made the pipe according to directions in "The Farmer's Advocate," and it certainly worked to perfection. I also profited by another article on making ensilage

ous New Year. I might tell you more of the benefits I have received from reading your paper. I might mention that I took first prize in farm competition for the best kept farm in the county, the success of which I count to "The Farmer's Advocate" and other agricultural papers

George Riley. Wright Co., Que.

#### Time and Method of Sowing Alfalfa.

Under average conditions in Ontario, said Prof. C. A. Zavitz, of the Ontario Agricultural College, discussing alfalfa in a recent address, the seed should be sown at the rate of about twenty pounds of seed per acre, and the seeding may take place at any one of three different times of the year as follows:

1.-Alfalfa seed may frequently be sown on winter wheat in the early spring either on the old snow or on fresh snow of one or two inches, and no harrowing or cultivation is necessary: When this method is followed the soil should be free of grass and weeds, and the wheat should not be very thick on the land.

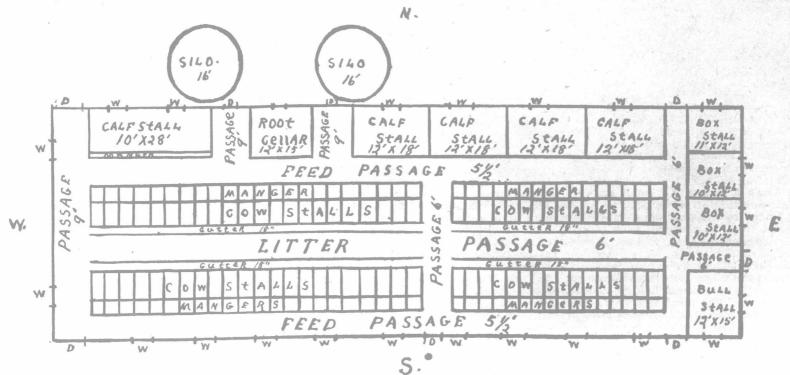
2.-On a suitable seed-bed, and as soon as the land is sufficiently dry in the spring, alfalfa seed may be sown from the grass seed box placed in front of the grain drill. About one bushel of barley or spring wheat per acre sown from the tubes of the drill makes, a very good nurse crop After the seed is sown, the land should be harrowed lightly. This method usually gives very good results, providing the land is in a good state of

cultivation, and is in a clean condition. 3.-Alfalfa may usually be sown alone to good Growing Alfalfa on Loamy Soil.

In the frequent addresses upon alfalfa growing which he is called upon to make, Prof. C. A. Zavitz, of the Ontario Agricultural College, continues to emphasize strongly the importance of securing a hardy strain of alfalfa for sowing under Canadian conditions. While the common alfalfa produced from Montana or European seed often gives excellent results under particularly favorable conditions-as, for example, on hardclay hillsides-under less favorable conditions it frequently kills out in a short time, its place being taken by blue grass. On loamy soil this very commonly occurs. Time after time we have seen alfalfa on rolling fields kill out first in the hollows, then on the loamy crowns of the knolls, while on the clay slopes it would last ten, fifteen, or twenty years. At the Western Dairymen's Convention in Woodstock lately the point was brought out that many farmers in Oxford County have experienced difficulty in maintaining a good stand of alfalfa. No doubt, the leamy character of Oxford County soil has considerable to do with it. Choose clay hillsides for alfalfa. Why this is so we cannot say, but that it proves true about nine times out of ten in Ontario, we know by experience and wide observa-This is not to admit the unwisdom of tion. sowing alfalfa on other soil than clay, because if we had no clay we would try it on almost any kind of well-drained land-first getting the land very clean and being careful always to leave a big top for winter protection. Leaving the third crop of a season uncut and unpastured will often preserve a stand successfully through the winter. If one will then, on summer-fallowed land, sow alfalia alone in July, choosing a hardy strain, he should have good chances of profitable returns. It is well to have the field enriched with manure applied for a previous hoe crop. But beware of using dirty manure just before sowing the alfalfa. Inoculation is worth trying where one is sowing alfalfa for the first time on a farm, since it costs very little. If you still fail, try again, using lime and, perhaps, phosphorus. Do not give up. Keep on trying till you get on to the know-how.

#### "The Only Paper."

I have taken your journal only one year, but I am highly pleased with it, and my wife thinks it is the only paper. Waterloo Co., Ont. F. Brown.



Sir Henry M. Pellat's Cattle Barn.

#### THE DAIRY.

#### The Cause and Prevention of Fishy Flavors in Stored Butter.

An address given by Dr. F. C. Harrison, to the Western Ontario Dairymen's Convention.

RESUME OF LITERATURE ON FISHY-FLAVORED BUTTER

The fishy flavor of butter has been known for a number of years, and in some of the more recent text books on dairying there are references to this particular taste. It is said to have been common in Denmark before the era of pasteurization, but, so far as I can ascertain, the first reference of importance occurs in the Colonial Dairy Review, compiled and published by W. Weddell, of London, England. About 1900 it is stated that much Australian butter sent to England had a pronounced fishy flavor that was very objectionable and which caused considerable depreciation in price. In 1901 the New South Wales dairy expert, M. A. O'Callaghan, found that the fishiness of Australian butter was due to a mould-Oidium lactis. By inoculating milk with this organism, fishy-flavored butter was produced, while the control portion of the milk produced butter of good flavor. By pasteurizing a portion of milk containing the mould, the pasteurized milk produced butter of good flavor, while the control transmitted the fishy flavor. O'Callaghan, therefore, recommended pasteurization at 168 degrees F., as that temperature readily destroyed the organism. Cleanliness in and about the dairy was urged to prevent the inoculation of the butter during the manipulation of the milk,

DuRoi, however, writing in the Milch Zeitung found that pasteurizing at a temperature of 158 degrees F. did not always control the fishy taste

In 1901 there were several discussions as to the cause of fishy butter in the creamery journals, notably one by H. G. Piffard, who attributed the flavor to algae (low form of aquatic life), commonly found in stagnant fish-flavored water.

In 1903 appeared a bulletin on studies upon the keeping quality of butter by L. A. Rogers, of the U.S. Dept. of Agriculture. Rogers took two lots of freshly canned butter, kept them at room temperature and examined them at frequent intervals as regards condition, bacterial content, etc., and in from 250 to 300 days the samples showed a disagreeable fishy flavor. An increase in acidity accompanied the change in flavor, and both changes in acidity and flavor progressed steadily after the disappearance of the microorganisms, showing that the changes were not due to direct action of the living cells. Rogers thought that it was reasonable to suppose that enzymes of the milk, acting alone or in conjunction with the yeasts and the resulting enzymes were responsible for the so-called fishy flavor in butter packed in large but unsealed vessels.

Later, in 1909, L. A. Rogers, of the United States Department of Agriculture, published a bulletin on Fishy Flavor in Butter states that the trouble is widespread in occurrence, but most noticeable in newer dairy sec-It occurred at times in fresh butter made during the summer months, but usually appeared in cold-storage butter after it had been held over some time in cold storage, and even low temperatures did not prevent the development of the fishy flavor. He could not produce the fishy flavor by inoculation with the mould Oidium He did not try the variety with which O'Callaghan worked. No species or group of bacteria could be found peculiar to creameries having trouble with fishy flavor; the only peculiarity of the cream from farms producing fishy butter was the presence of very active lactic-acid bacteria. The experimental butters which became fishy were all made from high-acid cream. Overworking the butter made from sour cream at times produced fishy flavor. In the opinion of this author, fishy flavor is caused by a slow, spontaneous chemical change by which acid is developed and which is favored by small amounts of oxygen. As a means of prevention, he advocated making butter from pasteurized sweet cream, and butter made from pasteurized sweet cream with a starter, without ripening, seldom, if ever, becomes fishy.

These seem the principal references to fishy flavor in butter, except one or two which occur in dairy text books, which are as follows: Lafar, in his text book on Technical Mycology, published in 1904, states that fishy butter is due, or is found to appear, when in certain regions pastures are flooded by salt water and the grass or hay therefrom is covered by small crustacea. The use of common salt made from sea water, or salt which contains much magnesium, imparts a fishy flavor to butter, and there are numerous in-

stances in which the presence of too much salt has resulted in fishiness. A fourth cause is due to micro-organisms.

Weigmann, in his text book on the Mycology of Milk, published in 1911, gives the same causes. Siedel found that a cause of fishy flavor in butter made from pasteurized cream was due to the washing of the pasteurizing apparatus with soda solution, which, in spite of repeated washing and rinsing with water, left a grayish deposit on the metal, which seemed to impart a fishy taste to the butter.

OPINIONS OF PRODUCE DEALERS.

In this connection I wrote to several large exporters of butter in Montreal, asking them if they had had any experience of this defect in Canadian butter, and, if so, to what extent, and to what degree it depreciated the value of the I received a number of instructive replies, which I may summarize as follows:

1.—"There have been many theories as to the cause of 'Fishy Flavor' in butter. Formerly, 'Fish' was given as a reason, then 'Salt,' then 'Salt That Had Been Near Fish,' then 'Salt Stowed In Vessels Crossing The Ocean,' but more recently the fault has been attributed to 'Dirt' in various forms, the flavor being taken in through the milk or !ream, or through the salt. Probably the fault comes more frequently through the 'Salt' than in any other way, but we are satisfied that there are other causes.

2.- "We have met with this flavor in butter quite frequently, and fishy-flavor butter usually sells at one to two cents per pound under the price of finest, the depreciation, of course, depending upon market conditions. It has been our experience that fishy flavor is not often met



S. E. Facey, Harrietsville, Ont. President Western Ontario Dairymen's Association.

with in new butter, but generally arises in butter that has been held in cold storage for some length of time. We have also noticed that when butter is very mild-salted, the fishy flavor does not seem to develop to the same extent as in higher-salted butter.

3.-"Re 'Fishy Flavored Butter.'-This is a common fault with all held butter, and we think only an exaggerated term for 'staleness'-at least, the two go hand-in-hand. It is a question of The lower the temperature the slower degree. the process We think salt sometimes turns butter fishy. 'Saltless' butter is rarely fishy in low temperature.

As to the value of these faulty flavored butters, it is a question of degree again. Personally, I would not have fishy butter on my table as a gift, but there are many people who seldom or never get anything else. Of course, they don't know as I do. Ordinarily, such butters have to be sold at one to four cents per pound under finest, mild, fresh flavored. Canadian tastes have changed very much the last few years as regards butter, and it is more difficult to sell low grades than formerly, even at the reduction. There is not so much fishy butter as formerly, because we think it goes into consumption more regularly than in former years."

From the results of former investigations and from the opinions of leading wholesale mer-

chants it seems pertinent to inquire if the term "fishy" accurately describes the flavor trouble complained of. I have noted often that expert judges seldom agree in their description of a specific flavor, and it is certainly necessary to have a standard for comparison. define fishy flavor, as a peculiar oily taste, suggestive of certain parts of a fish, such as salmon or cod, or shall we enlarge the definition and apply it to any kind of an oily taste present in butter? You will note that a Montreal exporter goes even further and states that he thinks it is only an exaggerated term for staleness. matter is more important from the biological than from the buyers standpoint, because we may have a number of different living agents producing the different shades or degrees of bad flavor. For example, the casual agent of "staleness" may be entirely different from the casual agent of a true fishy taste.

I think it is reasonable to assume that fishy flavor may be imparted to butter by poor salt, probably of sea origin, and by certain small crustacea, but we may set these reasons aside, for under our conditions these are seldom, if ever, met with. Let us discuss, therefore, those most likely to occur under Ontario conditions.

I think most makers who have to make butter from gathered cream will agree with me that during the hot weather the cream received at the factory is over-ripe. It has quite a high degree of acidity, and in many cases a secondary fermentation is commencing. The task of the maker to produce a first-rate article from such raw materials becomes at once a very difficult one, for the control of the acid fermentation is beyond his control, and secondary products are being formed in the butter by a variety of organisms. Even pasteurization of stale cream would not bring the best results, for many of the changes go on without the organisms, but through the agency of enzymes elaborated by them.

Such organisms as varieties of Oidium lactis, moulds, such as Penicillum glaucum (the common blue-green mould), Cladosporium butyri are all fat splitters, and such commonly found organisms as Bacillus fluorescens, a common organism in water, Bacillus mesentericus or potato bacillus, Streptothrix odorifera, and many others belong to this fat splitting company and produce undesirable flavors in butter. Another factor which I believe gives a disagreeable, fishlike flavor, is a bacterial substance known as indol, and which is produced by a number of fecal bacteria, such as the Colon bacillus, B. lactis aerogenes, and many others.

Tri-methylamine, which has an odour of herring brine, undoubtedly gives a disagreeable flavor to butter, which may be termed fishy. denies the statement of O'Callaghan that this substance (tri-methylamine), which is produced by Oidium lactis, gives rise to a fishy flavor, but we must remember that under the name Oidium lactis are included a large variety of organisms, some of which undoubtedly produce poor flavor. I recall an instance of this.

Dr. Weigmann, the Director of the Dairy Experiment Station at Kiel, and one of the leading dairy authorities in the world. a starter for buttermakers which contained a lactic-acid organism, together with a variety of oidium lactis. The combination or mixed culture gave excellent results and a fine flavored butter, that, however, had a very limited keeping quality, which, Dr. Weigmann told me, was due to the action of the Oidium decomposing the butter fat, and giving rise to an undesirable flavor. Hence, he could not recommend this culture for the preparation of butter for export purposes, but only for butter which was quickly consumed. I had samples of this culture, and in some experimental work confirmed the conclusions of the German Expert.

Again, Rogers states that large quantities of tri-methylamine could be worked into butter without producing any trace of fishy flavor. I believe this statement true, but find that if minute quantities are employed, there is a decided fishy flavor. If one smells a bottle of 33 per cent. solution of tri-methylamine, no trace of fishy flavor can be noticed, but make a large dilution by adding a drop to a cupful of water and the smell is instantly noticed, even at a distance of several Hence, any organism able to produce this substance (tri-methylamine) in butter may give rise to a fishy taste, and we know that many producing this substance are found frequently in Recently a Japanese investigator, Tsubutter. jimoto, has found that the odor of fish oil is due almost entirely to clupanodonic acid. This acid, by the addition of more hydrogen atoms, becomes stearic or oleic acid, and it is possible that oxidation of stearic acid or stearin and oleic acid or olein might result in the formation of clupanodonic acid, and thus give a fishy flavor. This is merely an hypothesis, and may be the explanation of Roger's surmise, that "fishy flavor is caused by a slow, spontaneous chemical change

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by which acid is developed and which is favored by small amounts of oxygen."

A high-acid production, or the presence of lactic acid bacteria giving high-acid cream evidently is another factor which encourages secondary changes, among them a fishy flavor.

PREVENTION.

Undoubtedly, Rogers' remedy of making butter from pasteurized sweet cream prevents fishy flavor, but this remedy cannot be carried out under our present system of making butter from gathered cream.

We must either take precautions to obtain cream in better condition, or use some method c' treatment in the factory.

The most obvious method of improving the gathered cream is a campaign of education to show patrons the necessity of cleanliness in each detail connected with milking and separating, and the importance of immediate cooling and holding the cream at a cool temperature until it arrives at the factory. These details have been given so often that I need not enlarge on these at the present time.

The proper treatment of over-ripened cream at the factory is a more difficult question. Some recent experiments have shown that ozone may be used for deodorising stale cream. The cream is first pasteurized and then carried to an agitator and treated with ozone for forty minutes. The cream is slightly bleached by this process and completely deodorized and the acidity reduced one-half. After cooling, the cream is churned into butter. Butter made by this process grades as No. 1. Such a process would have to be carefully investigated under factory conditions and the cost carefully computed before it could be adopted with certainty, but, if Ontario makers are finding it difficult to manage gathered cream successfully, and if they cannot obtain cream sufficiently sweet for the best manufacturing result, then some process, such as that described, would seem advisable in order to secure the best results.

Dairying is considered by many as the greatest manufacturing business in this country.

## POULTRY.

A Mammoth Farm Poultry House. Poultry, and rightly so, is gradually coming into its own as one of the most valuable assets to the general farm. More up-to-date sanitary houses are being erected year after year, and better methods of feeding and management are being practiced, and where the farmer and farmer's wife were once rather indifferent and skeptical regarding the feathered tribe on the farm they are now alert and seeking information which will lead them to success as it has done others. Housing is of prime importance: There are many good styles of houses and many bad. A very good type is that here illustrated, a house situated on Sir Henry Pellat's large stock farm

in Ontario County. This house, 102 feet long

and 16 feet wide, is placed tion on a sloping pièce of ground, which made it possible to build an incubator cellar 18 feet by 16 feet under the east end. The house faces the south, it is ten feet high in front and five feet high behind. There are six pens in the house, partitions being of wire netting with doors from pen to pen. It is a curtain-front house, no glass being used in its con-struction. The frames containing the cotton are three feet by three-and-one-half feet in size, and are removable. The roosts are situated along the north side of the pens with dropping boards. They are made of ordinary scantlings on the level, and hook up out of the way to permit of ease in cleaning out. It is the

intention of the manager of hens, and to go into the poultry business on quite an extensive scale, using colony houses to supple-Five incubators are to ment the large house. be run, and about 800 chickens hatched this This house alone will house from 325 to 350 hens comfortably.

Plan to use nothing but a bred-to-lay cock bird or cockerel in the breeding pens to produce pullets for egg production. Make the selection of this bird early.

# GARDEN 龄 ORCHARD

#### Strawberry Culture.

Editor "The Farmer's Advocate":

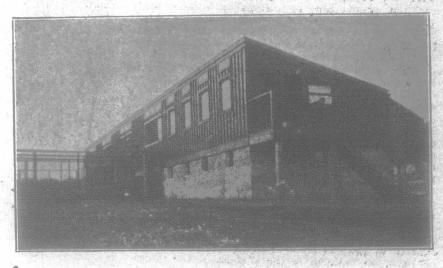
The Strawberry will do very well on a great variety of soils, but unless the land is naturally well drained it is very important that it should be thoroughly underdrained.

It is best to have preceded the strawberry crop with a noe crop, which had been kept clean, thus giving as few weeds to fight in the berries as possible. The working of the hoe crop the previous year has a tendency to rid the soil of grubs. It is best to manure the land heavily in the fall and fall-plow the ground, this also helps to lessen the number of grubs in the soil. The plowing should, at least, always be done early in the spring. The soil should be thoroughly tilled after plowing and just before planting the ground should be rolled, and after rolling it may be marked out with a marker similar to a corn marker, making the rows 4 feet apart, or perhaps 5 feet when the land is extra strong. The distance apart in the rows should be about 2 feet when the rows are 4 feet apart, and 15 inches when 5 feet apart. If it is not convenient to get a marker as mentioned above, a very satisfactory method of marking the rows is to stretch a string, and run a wheelbarrow along the string, in this way a few acres can soon be marked out. The planting may be done quickly by two persons working together, one person going ahead and making a cleft in the ground with a spade deep enough to let the plant in the ground to the depth it had been in before transplanting, the man behind carrying the plants, placing one in each hole, spreading the roots out and putting the earth on with his hand, and pressing it firm with his foot, all of which can be done very quickly when one has a little practice. The plants should always be kept moist, and never exposed to the sun and wind. If they become dried out a large number are almost sure to die. The time of planting may vary somewhat, and still give good results, any time between April 20th and May 10th, depending upon the season.

The cultivation should begin in a week after the berries are planted, or sooner if the ground becomes baked. The cultivator may be used to keep the ground loose, but care must be taken not to destroy the runners. It is important that the patch should be hoed often in order to prevent the weeds from getting a start, and, in addition to this, the runners should be spread out and placed so that they will cover the ground When the matted row system is pracevenly. When the matted row system is prac-ticed, which is most common, care should be taken not to let the rows come too close together, at least a foot should be free of runners, otherwise there would not be room to pick the

The blossoms should always be picked off the first season, in order to give the plant the best chance possible to set a large quantity of runners.

It is necessary to protect the plants in inter. Various kinds of mulch may be use



Poultry House on Col. Sir Henry M. Pellat's Farm, Ontario Co., Ont. An incubator cellar is situated at the near end,

the farm, T. Cussion, to keep only one breed of such as marsh hay, corn stalks, strawy horse manure, or wheat straw, and the plants should, be all covered, but it is not necessary to put a real heavy covering on, especially if manure is used. The danger of early frost may be lessened by not uncovering the plants too early in the season. To uncover, simply rake the heaviest of the mulch into the space between the rows. As a rule it is necessary to pull a few weeds out before the fruit is ready to pick.

A small house or tent should be provided, or at least some protection for the berries when they are picked. And, as there is bound to be a rush when the picking season is on, care should be taken to have the carriers, crates, boxes, etc., in good shape. The matter of pickers is some times a vexed question, but if possible it is best to have women rather than young girls and boys.

The question of a market is an important and necessary fact of strawberry culture. ning factories take a larger quantity each year, but if the plan, which was tried on a small scale last year, namely, the shipping of the berries to Winnipeg and other places at a distance, could be developed to advantage it would relieve the home markets, and have a tendency to make prices better, and the canners less independent. One thing is very necessary if the berries are going to look well and keep well, and that is careful picking. Care must be taken not to pick over ripe berries, nor should they be picked too green.

The first crop having been harvested, it is then a question as to whether it is best to try to save the patch, and get another crop or simply plow it up. If the patch is a good one and not too dirty, perhaps it will pay to cultivate it for another season. The after harvest cultivation should first begin by using the mower to cut the vines off close to the ground, and then the vines or any straw that may be left can be raked up and taken off, and a light furrow run down on each side of the rows leaving them about a foot and a half wide. After this the cultivator can be used, and the weeds in the rows hoed or pulled out. The winter protection should be the same as for the new patch.

There are a great many varieties of straw-berries, many of which have proven to be very good. Care should always be taken not to plant a variety, or any number of varieties that have imperfect flowers. It is best to plant about every third row of a perfect variety. Bulletin No. 62, issued from the Experimental Farm, Ottawa, recommends the following varieties: Commercial: Beder Wood (per), Splendid (per). Warfield (imp.), not suited to light soil, Williams (per.), Greenville (imp.), Bisel (imp.), Sample (imp.), Buster (imp.), Domestic : Excelsior (per). Splendid (per.), Senator Dunlap (per.), Lovett (per.), Ruby (per.), Bubach (imp.), Wm. Belt (per.). Blenheim, Ont.

J. O. LAIRD.

#### Leamington Onion Fields.

The Leamington district has been bulging into prominence of late in a most surprising way. Situated, as it is, near the western end of Lake Erie, it enjoys a climate milder than that of any other part of Ontario. This gives it a great advantage in the early maturing of vegetables such as tomatoes and muskmelons, and these products of its gardens have made a place for themselves in the markets of all our large cities. For the raising of peaches this district has also become famous. In the town itself the strong odor of tobacco makes itself felt in the vicinity of two large factories, which work up the product yielded by the farmers' fields in the surrounding country. Yet more important than all is the corn crop, which, throughout the whole of Essex County, is brought to greater perfection than anywhere else in Canada. As if all this were not enough, Leamington has become noted production of onions on a large scale. While onions are grown to a considerable extent on the high sandy ground close to the town, the onion fields proper are about six miles away, on the reclaimed marsh lands of Pelee Point.

Only a comparatively small portion of the Pelee Point marsh has beeh reclaimed, and much of this artificially drained land is but low-lying dark clay, not especially suitable for the growing of onions. But there are hundreds of acres there appreciably lower still, in which the level clay is overlaid by black muck to a depth of from one to six feet, with occasional pockets much deeper. On a typical farm that was visited by "The Farmer's Advocate" representative on his mission of enquiry early last December, the muck at the front of the farm was two feet deep. At the rear end, about a mile distant, the depth of the muck was five feet. At any point between, the depth of muck could be safely estimated varying exactly in proportion to the distance from front or back, so uniform is the surface of the underlying clay. The proprietor states that since his occupancy of the farm, the depth of muck has decreased by a foot in consequence of being drained and tilled. The surface of the land is almost exactly level with that of Lake Erie, drainage being secured by a huge ditch or canal which has been dredged out across the point, and out of which the water is pumped at either end into the lake by steam power

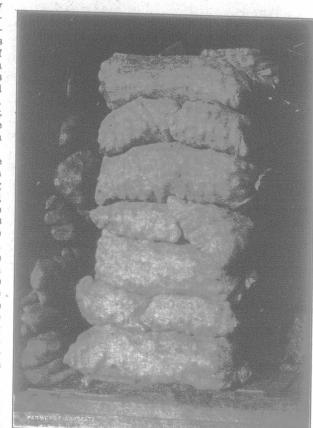
Some six or eight years ago it began to be realized that "The Marsh", as it was locally , as it was locally termed, was great onion soil. Since that time the area devoted to this crop has rapidly increased As every Ontario onion grower knows, the year of 1911 was one of light crops and high prices. In consequence a much larger acreage was planted everywhere in 1912, and the yield

being unusually heavy, though but of indifferent quality, the crop has been hard to sell at even the low prices prevailing. In the Pelee Point Marsh District about 200 acres of onions were grown, and the average yield is estimated at 600 bushels per acre. There may be slight exaggeration here, as is the case with most estimates, but yields of individual fields varied from 300 bushels to (in several cases) fully 800 bushels per acre. In the early part of December a very considerable part of the crop was still in the hands of the growers, and a problem new to most

A Pelee Island Onion Field.

of them, that of winter storage, was being

Cultural methods on "the marsh" differ slightly from those followed generally. Drills are wider, being 16 to 18 inches apart, and seed is sown deeper, an inch and a half being the depth aimed at. In a growthy season, such as last year, the development of top is prodigious. Where the crop was good the tops were three feet high, and so thick that the ground could not be This district is blessed in being yet un-



A Pelee Island Onion Storage Cellar.

visited by that pest dreaded by gardeners, the onion maggot. At the proper time the bulbs are pulled by hand, laid in rows and left to dry until ready for topping. Topping by hand was the rule until lately, but now machine toppers, driven by gasoline engines, do much of this work. These machines top, sort, and bag the onions automatically, a gang of men, of course, being 14, 15 and 16.

required to tend them. They go from farm to farm in succession, and are owned and run as are threshing outfits.

The onion sacks as filled are piled like cordwood in airy sheds so that the curing process may continue. Before being shipped the sacks are emptied onto large, slatted, sloping sorters, the culls picked out and the rest bagged and weighed, 75 lbs. lains put into each sack.

On the farm of John Ross, one of the leading onion growers, the Government, through its county representative, conducted experiments for

some years. The main purpose of these was to determine the most suitable fertilizers to apply for onions on that muck soil. The one conclusion that stands out clearly is that barnyard manure is the best. Commercial fertilizers did not prove as satisfactory as was hoped, though in some instances' excellent results followed their use. For the general crop, it may he safely said, that comparatively little of it receives fertilizer of any kind, and yet onions are grown on the same plots year after year.

Co-operative Onion Growers' Association which works in friendly harmony with the one in Scotland. Ont., has helped its members very materially in the marketing of their crop. Up to December the Association had

shipped 60 car loads of onions, 600 bushels to the car, and estimated that they had 20 car loads still unsold.

As whole farms in this district are suitable for the raising of onions, and as labor is there, as elsewhere, extremely scarce, it follows that only a small percentage of the land available can be devoted to this profitable crop. On the farm of Mr. Roach, indeed 55 or 60 acres were in onions last season, but practically all of this acreage was centered in small plots on shares. The process of sub-division of farms has begun, and lots of five, ten, fifteen and twenty-five acres are now not uncommon.

There has followed another inevitable result. Prices of marsh land are soaring. For property that a few years ago was of little value, \$100.00 to \$150.00 an acre and even more are asked. Some weakening of the boom may be looked for as a result of the drop in onion prices. But the feeling a year ago was well expressed by a coal dealer in Leamington who owns and works ten acres of onion ground in "the marsh", when referring to an offer of \$150.00 an acre that a neighbor had received. "I wouldn't take less than \$200.00 an acre for mine, as I can make that much on it from onions every year.'

#### THE FARM BULLETIN

## Cobourg Horse Show.

Affairs of the Cobourg Horse Show showed a healthy state at the annual meeting recently held in Cobourg. In 1906 gate receipts were \$697 and in 1912, \$4,491; while the total receipts for 1912 were \$10,000. In the past seven years \$20,000 has been spent in prizes, and \$4,100 in improvements. The value of real estate buildings of the show is now \$25,000. The president has communicated with the agricultural societies of Northumberland and Durham with a view to ascertaining the best method of increasing the entry from these two counties.

New officers are :-Hon. President, W. J. Crossen; President, J. D. Hayden; Vice-President, R. F. Massie; Secretary, J. H. Davidson; Treasurer, E. W. Hargraft; Directors, Dr. H. C. S. Elliot, F. N. Field, K. C., Percy Clarke, Gran Plunkett, G. F. Jones, Jas. Bulger, F. M. Hawley, H. Field, J. R. O'Neill, C. E. Speer, W. R. Thompson, J. D. Haig, Geo. Greer, J. B. McColl,

J. P. Field, D. Dick. The date of the 1913 show is August 12, 13,

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#### The Open Winter. By Peter McArthur.

Is an open winter a blessing after all? I have heard many people rejoicing because the mild weather made it unnecessary to feed their stock heavily, and those who, like myself, cut their own wood find that there is a great aving in fuel. They say that a winter like the one we have been having is "not so hard on the poor" and that is a good thing, but there is another side to the story. The weather is so changeable that colds and sickness are very prevalent, and because of the bad roads the social He of the country has been at a standstill. There are days when hardly a rig passes, even on a road that lies between two villages, and not since I have come to the country have there been so few public entertainments of any kind. The mild and wet weather leaves the country roads imnassable, and that keeps people at home when there is little work to be done. It would be much better if they could be refreshing themselves with the natural enjoyments of visiting and parties. Although most of us dread the steady cold of the old fashioned winters, I am inclined to think that the steady severe weather is better for us than the kind we are getting. The oldfashioned winters have plenty of sleighing that males travel ng about a luxury, and it always freshens people to mix with their fellows. Although the weather has been mild, this winter threatens to seem unusually long because people are practically prisoners on their farms.

I am beginning to wonder what the hunters Every day I hear shooting in the woods, and I am at a loss to know what game is being pursued. It is now the close season for quail, partridge and black squirrels, but the guns are banging away as merrily as in the early fall. Once in a while the wind brings evidence that skun's are be ng killed, and that reminds me skunk hunting seems to have risen to the dignity of a profession. One day last fall I saw a couple of we l-dressed hunters with guns and dogs passing through a field, and fearing that they might be after quail I went out to warn them off. The one I intorviewed was dressed to the minute in puttees, khaki hunting jacket and prospector's boots. He to'd me that they were hunting for skunk, and were having a very successful season. They had ta'en seven on the previous day, and as I understand that good skins are worth from three to four dollars each, the occupation is not unprofitable. They had a tent located a couple of miles away, and were travelling through the country hunting carefully through each district. As neither the dog: nor the hunters gave my nose any evidence of their occupation, there must be some way of 'illin : s' un's and "trammeling up the consequences". When an ordinary man undertakes the task it is usually months before either he or his does are received in good society. Yesterday a hunter passed through the neighborhood looking for mink. He said that their skins hood looking for mink. He said that their skins Fancy No. 1s than like culls. So far I have are worth twel e do'lars each this year. This not found a single worm, and "we eats them recalls the fact that while in the village recently I saw a young man getting a lot of empty packing boxes, and was told that he was going in for breeding mink and wanted the boxes to make dens for them. With skins at that price, mink farming should rank with the fox farming of Prince Edward Island. Strange to say, although the woods are so nearly cleared off, I have been told that the catch of fur-bearing animals in Southern Ontario is almost as great as it was in the days of the Indians and the Hudson Bay Company. It is some time since I have seen a coon skin tac'ed up on the end of a wood-shed, but every once in a while I hear a farmer complain that coon hunters have cut down a tree worth more than many coons. As a matter of fact the beavers seem to be the only important kind of fur-bearing animals that have entirely disappeared from the country. It does not increase one's respect for the law of the survival of the fittest to find that such vermin as skunks, weasels, and mink, have survived all the other wild creatures that were in the original forests. I wonder if it is the same with human beings, and that the harder the struggle for existence becomes the more likely we will be to find the meaner, more cunning and despicable types prospering? Sometimes when I am feeling bilious I am inclined to think that the law of the survival of the fittest works out among human beings the same as it does among skunks.

It is surprising to find how few of the things that were native to the country have really disappeared. Last fall I was asked to write a Christmas story, and in the course of it tried to describe a dinner where pioneer dishes were used. I found it was Possible to get all of them except one. Nowhere could I get a trace of the old wild crab apples that grew in the thick woods. The pioneers used to put them away in pits until spring, and then held in the Canadian Foresters' Hall, 22 College

safe in saying that these wild crab apples had disappeared with the original forest, but when the story was published I found that a housewife living within a mile of me had been putting up wild crab apple jelly about the time I was writing the story. It seems that there is a thrifty wild crab apple tree about three miles from here on the banks of the creek that flows through this farm. This is another thing that shows how foolish it is to be sure about anything. Emerson, in his biographical sketch of Thoreau, tells that the naturalist-philosopher had found, in the neighborhood of Walden Pond, specimens of practically every kind of plant produced on the continent. He was even able to duplicate samples that had been brought to him from the Arctic circle, and that were not supposed to exist in the Temperate zone at all.

# # "# # Last week I opened another silo-I mean trench-of celery, and was surprised to find that I was altogether too hasty in complaining about the pithy growth of the plants. When the work of trenching the celery was being completed we trenched the pithy stuff on general principles, and because we had noticed a few good hearts in the hune bundles of stalks. On opening the trench I stripped away the pithy outer stalks and found, in almost all of them, large sound hearts. The celery I grumbled about turns out to be the best we have had this year. It is crisp, and tender, and better-flavored than the kind we had been using earlier in the season. But this has been a bad year for trenching celery as it was almost impossible to keep the water drained away from it, and the mice got into some of the trenches. At the same time I am inclined to think that trenched celery, if handled successfully, retains its flavor, and is much more appetizing than that which is kept in cellars.

Apples that we kept for the winter are proving interesting in several ways. They packed in barrels just like those that were shipped, and instead of being put in a cellar were buried in a side hill. Although I hear complaints that apples kept in pits and cellars are rotting badly, ours are coming out as sound as when they were put away. We opened a barrel of Spies last week, and I found only one rotten apple. They were as sound as when they were packed, and it was interesting to find that, although they were tightly pressed, they were not injured. The bruises caused by the pressing had all dried instead of rotting, and the only damage done was to the shape of the apples. As the barrel we opened had been filled with culls, I am inclined to think that the apples shipped must have been of pretty good quality, because these were good enough for anyone. The ink spot and scabs, which made it necessary to cull them, have not affected the eating or keeping qualities of the apple, and now when there is no choice fruit with which to compare them they seem more like cores and

#### The Regina Clydesdale and Shorthorn Sale.

The dispersion sale of 77 Clydesdales and 61 Shorthorns, held by P. M. Bredt & Sons, at Regina, Sask., on December 18th and 19th, was a decided success, handsome prices being obtained. The five-year-old imported show mare Estelle, by Up-to-Time, sold for \$2,000 to Geo. Kinnon, Calgary, Cottonwood, Sask.; John A. Turner, b ing the runner up. The six-year-old mare, Madrigal, by Ruby Pride, went to John Young, Yor ton, at \$1,000. The four-year-old mare, Zuleika, by Everlasting, went to John A. Turner, at \$950; Dunrobin Pearline, by Argus, went to R. Sproule, of Caron, at \$1,060, and Queen Alexandra, a two-year-old filly, sold for \$925, to R. J. Renwick, of Corrine, Sask.

Seven stallions two years and over, averaged \$914. Three yearling stallions averaged \$363. Thirty-six mares and fillies, three years and over, averaged \$564. Six two-year-old fillies averaged Eight yearling fillies averaged \$307. Seventeen spring foals averaged \$313, and the 77 head of all ages averaged \$505.

The shorthorns also brought fair prices, the top being \$900 for the five-year-old stock bull, Iron Duke, taken by J. Roberts, Maidstone, Sask. The three-year-old imported bull, British Victor, sold for \$510 to R. Sproule, of Caron. The highest price for a female was \$550 for Evening Relle, a two-year-old, bred by Capt. Robson, of London, Ont. Sixty-one Shorthorns, old and young, averaged \$266.60 per head.

The thirteenth annual convention, of the Ontario Fairs and Exhibitions Association, is to be would cook them in maple syrup. I felt quite St., Toronto, Ont., Feb. 5th and 6th, 1913.

#### The Maple Sugar Association.

The first annual meeting of the shareholders of the Pure Maple Sugar and Syrup Co-operative Agricultural Association has been held in Waterloo, P. Q. The following were elected directors of the society : R. T. Brownlee, Hemmingford, Huntingdon, Co.; Luc J. A. Dupuis, Village des Aulnaies, L'Islet Co.; Chas. F. Fisk, Abbotsford, Rouville Co.; M. F. Goddard, Waterloo, Shefford Co., and John H. Grimm, Montreal. The directors elected Mr. Goddard president, and Mr. Fisk vice-president, and appointed Mr. Jos. H. Lefebvre, Waterloo, secretary-treasurer. The following honorary officers were also elected: Patrons, Hon. Martin Burrell, Hon. Sidney Fisher, Hon. J. Ed. Caron; Hon. President: Prof. J. F. Snell, Macdonald College.

Luc Dupuis and M. F. Goddard addressed the meeting in French and English, respectively, on methods of manufacture of maple syrup and sugar, A. A. Carleton, West Newbury, Vt., President of the Vermont Maple Sugar Maker's Association, presented the greeting of his twenty-year-old-society to its new-horn sister. W. H. Bullock; M.P.P., who made the boast of having spent every sugar season in the bush since he was one; year old, promised the society to do everything: he could to advance its interests. Prof. J. F. Snell gave an address on the composition of maple sap and syrup, illustrating his remarks by experiments and by exhibits of properly labelled and misbranded containers.

The chief interest of the meeting centred in the discussion of the question of improved legislative protection of the industry. This discussion was opened by John H. Grimm in a care fully prepared paper, pointing out the decrease in the output of maple products shown by census statistics, and urging that the use of the word "Maple" be forbidden to manufacturers of mixed and imitation goods. Mr. Grimm maintained that it was the competition of these inferior goods which had caused the falling off in the production of genuine maple syrup and sugar-Geo. Small, Montreal, maintained that it was not the adulterator nor the manufacturer of mixed goods who was hurting the maple syrup industry of the eastern townships so much as the eastern townships' farmer himself, who had not learned to put out a pure product, uniform in density, color and flavor, and uniformly and conveniently packaged.

Prof. Snell introduced a resolution, seconded by R. P. Small, Dunham, asking for amendments the Adulteration Act, which would clearly distinguish mixed goods from pure. In amend-ment Mr. Fisk moved the following resolution, which was carried by a vote of 15 to 2:

Whereas we find by the Census Statistics of the past twenty (20) years that the production from the maple tree has diminished considerably;" the cause of which we attribute to the unremunerative prices obtained for it on our uncertain market, which is glutted with all kinds of adulterated goods, labelled in such a manner as to deceive the purchasers and induce them to buy what they believe to be the genuine product of the maple Whereas the stopping of the sale of such falsified articles, except on their own merits, would tend to increase the demand and sale of the genuine maple product, and thus open a larger market and give the farmer or producer protection and encouragement to increase his output instead of curtailing it, as has been the case in the past few years; and, whereas, we are of the opinion that a slight change or amendment in the Adulteration Act might bring about

Resolved—That we do earnestly petition the Hon. Minister of Inland Revenue to amend the Adulteration Act in the following manner:

No person shall manufacture for the purpose of offering for sale or sell sugar or syrup which is not the genuine maple-tree product, hearing labels containing the words: "Maple ive." "Maple flavor." "Maple extract," "Maple mixture." or labelled with an illustration or picture suggestive of the fact that they are products of the maple No person shall expose or offer for sale or sell any sugar or syrup which is not the genuine maple tree product, the packages of which are labelled in such a way as to deceive the public or purchaser, to induce him to buy such for maple tree products, except such falsified or mixed goods bear the words or marks—''Cane sugar,"
''Cane syrup,'' 'Mixture or Compound,'' 'Beet
sugar.'' 'Reet syrup,'' as the case may be, or
''Adulterated.'' If any person accused of selling, offering for sale, or exposing for sale as pure, an adulterated article or imitation of Maple Syrup or Sugar, or other Maple Products, can prove to the satisfaction of the court before which the prosecution is brought, that he bought the article in good faith as pure and that it was invoiced to him as Maple sugar, syrup, or other Maple Products, he may call into the case the person from whom the goods were bought, and may himself be discharged from prosecution.

Anyone contravening the above shall render

himself liable to a penalty of not less than two hundred dollars (200), confiscation of his goods, and imprisonment; one-half the penalty to belong to and be paid to the informer, and the other half to form part of the Consolidated Revenue

The handsome exhibit of maple syrup and sugar prepared by M. F. Goddard for the meeting was much admired. It is hoped that competitive exhibits may form a feature of future meetings. The secretary of the society states that the membership list has already reached the hundred mark, and that subscriptions are coming in daily. The shares of the society are \$10 each, payable one dollar a year.

#### South Peel Notes.

Threshing in this district at time of writing There was more to do this year is nearly over. than last, and farmers are not worrying over fied shortage. This district is gradually turning into a dairying centre. Whole sweet-milk and cream for Toronto use take up the attention of the majority of farmers. The map of to-day who ships either of those foods has to give his cattle and stables, as well as utensils, better care than ever before. The city of Toronto sends an inspector to inspect every part of a producer's plant, and, as these come unawares, a producer has to keep up to a high standard. The dairy business is helping other lines. The grain dealer or miler does a good business, simply because a dairyman is not satisfied to feed alone what he grows, but knows that he can make a profit from food that he buys. Sales of dairy cows take place every few weeks at different places. to make a success at those sale arenas is only a manne of chance. The majority of people are beginning to realize the importance of keeping a good sire and raising the helfer calves. If you'll'excuse a personal reference, I might say that the writer, who keeps a pure-bred Ayrshire bull, was greed \$85 cash for a two-year-old grade heifer. This heifer was by the pure-bred bull and out of a grade Shorthorn cow. This heifer is making us twenty dollars a month. I just mention this fact to show the advantage of a pure-bred sire. The hired help problem is one of the most serious that farmers have to face. Many are investing in labor-saving machinery to help relieve the situation. Many gasoline engines are being in-

stalled to pump, grind and cut wood. Land in this district is advancing, and almost any ordinary farm will bring \$100 per acre.

The Literary and Debating Society of this district has again commenced operations. With what pleasure many a young man and woman looks forward to these meetings! To take up some subject, or take part in a debate, makes us study, and the result is mind development, which we all so much need. Youth, we know, is the time to learn—a foolish time to think that we know it all. I remember reading a verse some years ago which should prove helpful to use these long winter evenings. It reads as follows:

Up, up! thy young aspiring youth, Step by step to the rounds of truth; Wake up, wake up! improve thy mind, And leave dull ignorance behind.

JAS. B. ROSS.

#### Death of John Jackson.

Too late for publication of particulars in this issue we have been informed of the death of the well and widely known Canadian breeder of Southdown sheep, John Jackson, of Abingdon, Lincoln County, Ont., which occurred on January 3rd. Mr. Jackson's sterling character, and genial manner, and his splendid record as a breeder of high-class stock, as a competent judge, and as a helpful member of the Dominion Sheep Breeders' Association, will be unanimously acknowledged by those who knew him. We hope to publish in our next issue fuller appreciation.

#### Dominion Aid to Argiculture.

Under direction of the Dominion Minister of Agriculture, Hon. Martin Burrell, a comprehensi e scheme for the promotion of Canadian agriculture, largely in co-operation with Provincial Departments, has been worked out by C. C. James, formerly Deputy Minister of Agriculture in Ontario, involving an outlay of \$10,000,000 in the course of the next ten years. Hon. Mr. Burrell laid the proposals before Parliament in an able speech on Jan. 23rd., details of which will appear in next week's paper.

#### Sale of Pure-bred Stock at Ottawa.

The annual sale of pure-bred stock, held by the Eastern Ontario Sales Association in connection with the Ottawa Winter Fair, took place Friday, January 17th. The large lecture room was filled to its capacity, but bidding was rather slow. Captain T. E. Robson, of London, was auctioneer. The stock sold comprised Shorthorns, Aryshires, Holsteins and a few Clydesdales, Prices were not high. The following brought \$100 or over:-

| 100 or over :—  |       |
|---|-------|
| MALES.  |       |
| Vonpareil Star, (Shorthorn), A. Doland,   | ` `   |
| Carp  | \$105 |
| Casabasia, Ont  | 120   |
| sian, Russell, Ont.   | 100   |
| Folden Ro'e, (Shorthorn)  | 100   |
| Giletta   | 150   |
| Son, Black Rapids   | 100   |
| FEMALES.  |       |
| ferry Beauty, (Shorthorn), Scobie & Co.,  |       |
| Scobie.   | 120   |
| delmar Flower, (Shorthorn)  | 125   |
| 방송하게 살아가면 하다면 하는 이 방송하게 되었다면 하게 되었다는 것이 없어 가지 않는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하 | 1.00  |

Nettie, (Shorthorn), W. A. Wallace, Kars... 170 The highest price for a Clydesdale was \$440, for a two-year-old imported filly consigned by Smith & Richardson, and bought by the Ontario Agricultural College.

#### Better Than Ever.

I have been a subscriber to "The Farmer's Advocate" continuously since 1886 (27 years) first as a monthly, then semi-monthly and latter-ly as a weekly, and am free to say that you have more than kept abreast of the times in agricultural matters, and have always been in the forefront in advocating what has been in the best interests of Canadian agriculture, and to-day "The Farmer's Advocate" is better value than at any time since its advent. Your recent Christmas issue was a literary and artistic gem, and worth a whole year's subscription. Queens Co., P. E. I. WALTER SIMPSON.

# No Navy, No Tariff, Tax Reform, Direct Legislation and Parcels Post.

The bill of fare at the thirty-eighth annual meeting of the Dominion Grange, held in Victoria Hall, Toronto, Jan. 22nd and 23rd, was, for the most part, a repetition of the large order given a For an aggregation of fierce-fighting farmers, hard-headed, deep-thinking farmers, who have a policy and are not afraid to make that policy known, no other organization in Canada squals the Dominion Grange. The meeting was fairly well attended by delegates from various local Granges, and the discussions, though mostly on old subjects, were illuminating in the ex-Canada is now at a very critical stage in her development, and many questions of vital importance to her future welfare face her people. The naval question is one which touches every woman and child in this Dominion; the tariff has been a bone of contention between political parties since the beginning; our system of obtaining revenue through indirect taxation is now being discussed on every hand; the initiative and referendum are questions occupying the minds of our deepest thinking citizens; our school system is not perfect, and learned men are earnestly seeking to improve it; the tax levied on automobiles does not meet requirements, and needs re-adjusting; some system of Parcels Post is sure to come, and we want the best; and there are still many well-informed people who believe in reciprocity, and an extension of the British preference. Look over this list, and imagine the wide scope covered by the Dominion Grange in amnual meeting.

The following resolutions were passed by the meeting, and show plainly the feeling of Grangers on each of these questions :-

1.—The fast-running heavy automobile is doing more damage to our roads than any other one cause. The tax on these machines should be graded according to H.P., and should be sufficiently large to repair damage which they do. Where autos are purchased whose speed power is away beyond the limit allowed by law, the tax should be proportioned to the excess of speed.

2.—A resolution demanding that Parliament submit the naval question to the people in the form of a referendum.

3.—The rapid spread of rural mail delivery in Canada lends special importance to the establish-

ment of some system of parcels post to help bring the consumer and producer together. Canada now carries parcels for other countries. To escape extortionate express charges we res ectively urge the Post-Office Department to investigate the working of the system in other countries with a view to its adoption here.

4.—Taxation of land values would have effect of expropriating a great share of unearned increment for the public treasury, and would assist in making possible the change from indirect to direct taxation.

5.—Transcontinental highways for automobiles are highly reprehensible. These roads will be of little or no use to farmers. The average county roads should be made the good roads.

6.-A resolution endorsing direct legislation through the initiative and referendum pointing out that we now have the initiative in Ontario in connection with the Liqor License Act, and it is working well. Our present constitutional system does not provide adequate machinery either the rational discussion or the fair settlement of public questions, and the extension of the practice of direct legislation would do much to remove the disabilities under which we labor at present.

7.—The protective principle should be entirely eliminated from the tariff, and as soon as may be, the public revenues should be raised by direct instead of indirect taxation. An indirect tax, such as customs duties, is susceptible of gross unfairness of incidence, is expensive to collect, and is out of harmony with progressive thought. The incidence of a direct tax on land values is patent to all, and its expenditure will therefore be more carefully watched. It is easier to collect, and much more difficult to evade.

8.-We recommend such a gradual increase in the British preference as will, in the course of a few years, head to complete free trade with the mother country as the best way to render assistance to Britain, and at the same time reduce the cost of clothing, iron-ware and other manufactured articles to the Canadian people. We are amazed at the people loudest in patriotic acclaims being unwilling to extend this preference.

9.-A resolution expressing confidence in reciprocity, and putting forth the opinion that it made rather a long and heavy list for a two-

cannot be permanently blocked, and still holding to it and hoping that it will be placed in the form of a referendum.

The educational committee brought in several resolutions which were passed.

1.—Favoring the advisability of improving and extending continuation classes in rural encouraging the teaching of elemen tary agriculture by use of school gardens and nature study in rural schools, and also the consolidation of these schools to premit of more advanced work.

2.-A reduction of rigidity and uniformity of school work due to bureaucratic control. Teachers should have more liberty, and examinations should not be so highly emphasized.

3.—Teachers should teach the duties and responsibilities of citizenship, both by information concerning the mechanism of our social and political life, and by concrete object lessons through democratic school organization.

4.-A resolution calling attention to the dangers that are irreparable from the growth of military drill in our schools tending to the increase of international antipathies, and the development of a narrow sense of national selfsufficiency, miscalled self-respect. We desire especially to protest against the use of the Boy Scout movement and the Cadet Corps as means whereby to carry on the propagation of militar-

5.-We commend the work of the District Representatives of the Ontario Department of Agriculture, and hope the good work they are doing and can do may be very widely extended. Granges should co-operate with them.

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The Legislative Committee brought in a report approving of rural-mail delivery and favoring legislation for parcels post system, for tax reform, and urging that the Government investigate all alleged combinations and trusts, that "stock watering" be made a criminal offence; also urging the public to protest against iron and steel bounties, and favoring local option in taxation as well as commending a bill advocating the abolition in Canada of the practice of the bestowing of titles.

All this, together with the Master's address,

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for a two-

day session. Henry Glendinning, of Manilla, Ont., Master of the organization, in his opening address referred to the past season as a somewhat discouraging one for the farmer, due to so much rain, but pastures were good, favorable to the milk supply and to stock. He believed the cause of the falling off in marketable stock to be the light rainfalls in June 1909, 1910 and 1911. which, coupled with the high temperatures, dried and parched the land, causing short pastures and short crops, which in turn reduced the stock on the farm. Farm labor is still scarce, and electrical power for farm work is still too expensive. Dealing with the good-roads question he stated that he was opposed to any expenditure on roads by the Federal Government, believing that all roads should be built by the provinces and municipalities, and that the "good roads" should not be a transcontinental highway for automobiles, but the roads leading from the farm to the mar'et in village, town or city.

In a retrospective view of Ontario farm life. Mr. Glendinning called attention to the fact that 50 or 60 years ago farmers had little money, and work was done by bees or exchange of labor. Farmers then shared each others' joys and sorrows, but as they prospered they hired help and became more independent, and to-day are very independent indeed, using telephones and rural mail deli ery in place of personal communication. Contrary to the views expressed by most of our progressive people. Mr. Glendinning believed that all this leads cityward. We admit that all these conveniences have a tendency to eliminate, to some extent, the old-fashioned logging bees, the old time corn huskings, short calls, etc., but how many people have left the farm because rural mail deli erv and rural telephones have been installed? How many more would have left had these conveniences not come? City conveniences on the farm cannot but make farm life more attractive.

The speater went on to say that we should get better acquainted with our neighbors, and give the rural people social conditions which will keen them in the country districts. He reiterated the Grange's stand on reciprocity, urged that something be accomplished in connection with a Canadian Parcels Post system, and with local option in taxation, favored a referendum on the navy question, denounced militarism, and urged farmers of Ontario to complete some effective organization citing, as an example, the coal miners of Britain.

The general sentiment of the meeting was strongly in favor of larger grants to public schools, although different opinions were expressed on the consolidated school system, the stumbling block being the difficulty of getting the children back and forth especially in winter. Many thought it had been a mistake to do away with the Model Schools, as teachers, in some districts, are now very scarce, and much difficulty is experienced in oldaining them.

The navy policy was hotly criticized, and not a single delegate was in favor of a money contribution. When a standing vote of all those present was taken all but two delegates voted or no navy whatever, showing that the Grange is not in favor of either a contribution to Britain or a Canadian navy. Col. Fraser, of Burford, expressed himself as of the opinion that navies are useless as a matter of defence. He believed that militarism, as at present constituted, tends to debase men and elevate officers, and is thus a menace to efficiency. If war did come in earnest he believed, with E. C. Drury, that the men from the farms, from the lumbering districts and from the fisheries would be the men upon whom the defence of the country would fall.

All were in favor of parcels post. It was pointed out that our postal authorities must now carry parcels from the United States, from England, and Germany, countries in which the system is now in operation, and why should they not carry Canadian parcels?

W. C. Good and other speakers showed how the tariff is a tax which the user or consumer of products really pays, and favored in strong terms direct taxation and the abolition of custom

Speaking on this same subject, Chas. Anderson, of Lennox Co., and who has been in the implement business in the West, showed what purchasers lose in duty on implements and machinery. He stated that a 45 h.p. engine brought to Winnipeg from the United States draws in duty \$300, and the duty on a grain separator is \$230, or a total duty on a complete threshing outfit of about \$610. The duty on a gas tractor is about \$380, and upon an engine gang-plow about \$112. This shows what purchasers on this side of the line must pay in order to get the hest type of American machines.

The automobile came in for its usual condemnation. Several instances were noted, where, due to carelessness or lack of courtesy on the part of auto drivers, people in the country had been injured or horses badly scared, and the offenders had escaped with very light penalties.

The automobile is a machine which is bound to Station, paying \$100 per year for two horse-remain with us. and while legislation governing power. With it they run a three-unit milking remain with us, and while legislation governing power. its speed should be more stringent, and while horse power and the money should go to repair cases of unfortunate accident. All auto drivers are not criminals. The majority of them are considerate, and all should not be branded bad because a few fail to live up to the law. The best means of obtaining better conditions is by reasoning the matter out with the parties concerned, rather than by the "fighting" process. Those who are spoiling for a fight are usually accommodated. Insist upon taxing according to horse power and upon applying the money accruing therefrom to repair the country roads, and also demand justice and speed control, but this will not come from "nasty" words, but rather from plain reasoning.

A resolution was also passed urging that, befor the Bank Act is revised, a commission be appointed to investigate banking in this and other countries, and that their findings be published in the form of a blue book to be circulated among

Officers elected :- Master, W. C. Good, Brantford; Overseer, Col. Fraser, Burford Sec.-Treas., Morrison. Arthur; Lecturer, R. J. Woods, Corbetton; Chaplain, B. Merry, West Lake; teward, Crawford Allan, Alliance; Assistant Steward, F. D. Bainard: Lady Assistant Steward, Miss Burton: Executive, W. C. Good, Col. Fraser, J. J. Merrison, E. C. Drury.

#### Hydro for all Kinds of Farm Purposes.

Hydro-electric power is already in everyday use on quite a number of Ontario farms, and many farmers are installing it every day. Some use it for lighting only, but others employ it as power for a variety of purposes. It is particularly popular among owners of milking machines. Two-horse power, costing \$50 per h.p., or a total of \$100 per year, will run a four-unit milking machine and at the same time keep several electric lights on in the house and stable. Between times it will run a saw, pulper, grinder, cutting box, pump, grindstone, washing machine, electric air heater, water heater and vacuum cleaner, besides heating flat-irons, electric warmers (used in place of hot-water bottles), and if you can think of any other purpose requiring heat or power, add that too. All these things "The Farmer's Advocate" has lately witnessed under ordinary farm conditions in Elgin and Oxford Counties. Up to date, the power has been supplied to individual farmers by the Hydro-electric Commission through one sub-station or another on a dat-rate basis. The purpose is to get hydro used on a number of farms so that data and object lessons may be

Two weeks ago we saw a Belgian milking machine started in the herd of Alex. Anderson, near St. Thomas, Ont. The machine was supplied for test by the Ontario Hydro-Electric Commission's rural section of the Engineering Department. It worked altogether by pressure, the teats being automatically squeezed and released by parallel rubber plates nearly rigid at the top. The pressure is applied first to the upper rims at the base of the teats and then gradually downwards, something after the manner of hand milking. At first, what with the double excitement caused by crowd around and also the new apparalus, which makes some little noise under the cows, they did not milk down very well, though we hear they have done better since. It is claimed as a strong point of this machine that it is more sanitary, there being no narrow tubes to keep clean. The milk flows to a covered receptacle, under the floor of the cows chest, suspended by a surcingle, another holding up the apparatus behind. Mr. Anderson has installed hydro-electric current and uses it for other purposes besides milking. R. A. Penhale, in the same vicinity, who has a Sharples milker which he has been running with a gasoline engine, is aso installing hydro and will use it for as many purposes as possible. The economy of electric power purchased on a flat-rate basis consists in finding as continual employment as possible for the power. Other farmers near St. Thomas are wiring for electric light. No doubt most of them will soon be using it for power as

The best commercial demonstration we have yet obser ed was last Friday on the farm of George Raymond & Son, near Ingersoll, Oxford Co., Ont, Messrs. Raymond have had hydro installed since the middle of October, obtaining it from the Hydro-Electric Commission through the Ingersoll

machine, lighting part of the house and one side these machines should be taxed according to of the stable at the same time. The same pump would operate four units with no greater demand the use of roads which they wear, there is on the current. In summer they milk 88 cows, nothing to be gained by harping about past most of which are stripping at present. They also run a Bell No. 50 cutting box, a Fleury 10inch plate grinder, a drag saw and buzz saw, an emery wheel and grindstone, a root pulper and fanning mill. In the house they run a washing machine, toast bread, heat flat irons, and two or three rooms. They have also purchased an electric water heater and intend to buy a vacuum cleaner. All these household attachments except the washing machine, are run by merely connecting them up as needed to a plug cluster, one side being for the light-bulh and the other for other purposes, or in other cases to a neat connection set in flush with the floor. To run the washing machine the motor (weighing, we believe, minety pounds) is lifted on to a cart or sleigh and taken to the house for the time being. The motor is a small affair, easy to connect up and never in the While at the barn it is placed in the basement and connected by belt to a line-shafting, from which all the machinery, including the milk-ing-machine pump, is run. It is a I handy as a pocket in a shirt. The cost of electric wiring and permanent fixtures for the house alone we \$77. This, of course, does not include the flat irons, electric heaters, or other detachable apparatus. The house is a large one, is very completely wired, and the cost of wiring was greater than the cost of wiring a new house would be. So handy are the appointments that the pro-prietor can touch a switch button to turn on the light without getting out of bed, see the time and go back to sleep if the hour permits. Two or three rooms are heated with a simple portable electric heater. Electricity is not an economical means of heating except when employing current that would otherwise go to waste, but it is certainly handy. Outside the house is a strong beacon light on an old flag pole. They say this sheds light for miles around. It is turned off when milking or doing other heavy work, so as to keep down the load.

The writer was fortunate to visit Mr. Raymond's farm on a day when the hydro-electric engineers were there making observations. For this special purpose they had with them a Baker portable Graphic watt metre, on the ruled blank chart of which a needle inscribes a continuous record of the horse-power being used. The chart facts: The Bell cutting box No. 50 running 408 is revolved by clock-work. revolutions per minute with the motor at 720 put through 5 binder sheaves of hard ear corn per minute, requiring a maximum of 81 horse power though an average of not over two. The knives were quite dull. By dividing sheaves it was possible to keep below the two horse-power load, even without sharp knives. Running the Fleury plate grinder, one bushel of barley was put through in ten minutes, ground fine enough for cattle feed, the maximum demand on current being one and one-third horse power. Sixteen cubic feet of pulped turnips had been put through ven minutes, with a consumption at the rate of I horse power. The milking machine pumps, capable of milking four cows at a time, required about 14 horse power, leaving half a horse power to run a number of lights.

We were particularly pleased with the candor of the Hydro-electric engineers. If a certain result was not quite so successful as they would like, they said so and recorded the facts. Privately they assured us of their opinion that the estimate of power for farm purposes at \$50 per horse power was quite on the safe side, and that with increasing use there is every prospect of substantial reduction. Distribution is the big item of cost, and the more extensively this current is employed throughout the area covered by the distribution wires, the more economical the current will become.

In "Nature's Diary", of the 16th, a misprint occurs in the directions for making the plantpress. The word "zinc" appears in the place of the word "pine." Makers of plant-presses for the season of 1913 please note that the four slats should be of "pine or basswood."

Enclosed please find postal note for \$1.50 in payment for yearly subscription to your "Farmer's Advocate." It is O. K. It is hard to get along without it. Editorials are grand, and the very useful hints always come in just at the right time to jog the memory. Yours truly, Victoria Co., N. B. C. H. SPIKE.

It is a grand paper, and is like an old friend, could not keep house without it. Wishing your paper every success.

SAMUEL G. STEWART. Prince Edward Co., Ont.

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## MARKETS.

#### Toronto.

REVIEW OF LAST WEEK'S MARKETS
At West Toronto, on Monday, January
27th, receipts of live stock numbered 58
cars, comprising 1,150 cattle, 9 hogs, 48
sheep and lambs, and 17 calves; no
business was transacted. Packers quoted hogs at \$3,50 fed and watered, and
\$8,15 f. o. b. cars.

Receipts of live stock at the City and Union Stock - yards last week were follows:

|        | City. | Union. | Total. |
|--------|-------|--------|--------|
| Cars   | 20    | 857    | 877    |
| Cattle | 885   | 5,781  | 6,066  |
| Hoge   | 23    | 5,023  | 5,046  |
| Sheep  | 144   | 1,654  | 1,789  |
| Calves | 78    | 420    | 498    |
| Horses |       | 15     | 15     |

The total receipts at the two markets for the corresponding week of 1912 were as follows:

| Cars   | City. 244      | Union.<br>238  | Total.          |
|--------|----------------|----------------|-----------------|
| Hogs   | 8,080<br>5,656 | 3,566<br>7,861 | 6,596<br>13,517 |
| Calves |                | 2,610          | 8,843<br>874    |
| Horses | 1              | 264            | 265             |

The combined receipts of live stock at the two markets for the past week, show a decrease of 150 cars, 580 cattle, 8,471 hegs, 2,054 sheep and lambs, and 250 horses, but an increase of 124 calves, compared with the corresponding week of 1912.

As will be seen by the above figures, receipts of live stock at the Union Stock-yards were exceedingly liberal, and as a consequence prices declined materially in all classes. Not only were the common and medium grades lower, but the good te choice sold from 25c. to 50c. per cwt., and the common and medium 40c. to 60c. per cwt. lower than for the previous week's quotations:

Exporters.—There were no cattle bought for export, but there were a few loads of export weights and quality on sale, the tops of which sold on Tuesday at \$7 to \$7.15, while the best price offered on Wednesday for the same quality of cattle was \$6.60 to \$6.75.

Butchers'.-Choice steers, 1,150 to 1,200 lbs., sold on Tuesday at \$6.50 to \$6.90; loads of good, \$5.80 to \$6.25; medium, \$5.40 to \$5.75; common, \$5 to \$5.30; inferior, light cattle, \$4.70 to \$4,90; choice cows of heavy weights, \$5.50 to \$5.75; good cows, \$4.75 to medium, \$4 to \$4.50; common \$5.25; cows, \$3.50 to \$3.75; canners and cutters, \$2.50 to \$3.50; heavy bulls, \$4.75 to \$5.75; light bulls, \$3.75 to \$4.50. and Thursday's markets cattle, that is, steers and heifers, sold from 15c, to 25c, per cwt. lower than these quotations, but cows and bulls di not suffer to the same extent.

Stockers and Feeders.—There was a light demand for steers of good quality and color. About four carloads were bought to fill an order from London. Ohio. Stockers, 700 to 800 lbs., \$4.90 to \$5.35; feeders, 800 to 900 lbs., \$5.25 to \$5.50.

Milkers and Springers.—The market was well supplied with common and medium cows, and backward springers, which sold from \$35 to \$50 each; good quality milkers and forward springers, sold from \$60 to \$70, while a very few of choice quality reached \$75, and one cow brought \$81.

Calves.—Choice veal calves were in excellent demand, and very scarce, selling from \$9 to \$9.50 per cwt.; good calves were also scarce, selling from \$8 to \$8.75; medium calves sold at \$6.50 to \$7.50; and common, rough, heavy, Eastern, grassy calves, sold at \$4.25 to \$5 per cwt.

Sheep and Lambs.—Sheep were in demand, at steady prices. Ewes of light weights sold from \$4.75 to \$5.50; heavy ewes and rams, \$4 to \$4.25; culls, \$2.50 to \$3.50. Lambs sold at lower prices, although receipts were light. Few lambs of good quality were offered. On Tuesday, prices ranged from \$8.50 to \$8.75, with a Very few at \$9. On Wednesday, lambs sold from \$8 to \$8.50, and slow 83.50.

Hogs,-The hulk sold at \$8.25, for solects, fed and watered at the market.

and \$7.90 f. o. b. cars at country points, although a few lots were reported at \$8.30, fed and watered.

Horses.—Horse dealers report that nearly all the stables in Toronto are filled with horses, but trade is quiet. There has been some enquiry by Northwest dealers, and they will not pay the prices asked. Farmers will have to reduce prices if they wish to do business with the Western dealers. There were a few horses sold, but to local buyers only. Prices reported were as follows: Drafters, \$250 to \$290; general purpose horses, \$200 to \$240; wagon horses, \$175 to \$225; drivers, \$100 to \$150; serviceably-sound horses, at \$80 to \$100.

#### BREADSTUFFS.

Wheat.-Ontario, No. 2 red, white or mixed, 93c. to 94c., outside; inferior grades, down to 70c.; Manitoba, No. 1 northern, 95c.; No. 2 northern, 92ic.; feed wheat, 66ic., lake ports. Oats-Ontario, No. 2, 83c. to 34c., outside; 88c., track, Toronto; Manitoba, No. 2, 411c.; No. 3, 40c., lake ports. No. 2, 78c. to 75c., outside. Peas-No. 2, \$1.15 to \$1.20, outside. Buckwheat-51c. to 52c., outside. Barley-For malting, 60c. to 65c.; for feed, 40c. to 50c., outside. Corn-No. 3 yellow, 561c. track, Toronto, all-rail shipment. Flour -Ontario, ninety-per-cent. winter - wheat flour, \$4.05 to \$4.15, delivered. Manitoba flour-Prices at Toronto are: First patents, \$5.80; second patents, \$4.80; in cotton, 10c. more; strong bakers', \$4.60, in jute.

#### HAY AND MILLFEED.

Hay.—Baled, car lots, track, Toronto, No. 1, \$13.50 to \$14; No. 2, \$11 to \$12 per ton.

Straw.—Baled, car lots, track, Toronto, \$10 to \$10.50 per ton.

Bran.—Manitoba, \$19 to \$20 per ton, in bags; shorts, \$22 to \$23, car lots, track, Toronto. Ontario bran, \$19 to \$20, in bags; shorts, \$22 to \$23, car lots, track, Toronto.

#### TORONTO SEED MARKET.

Alsike No. 1, per bushel, \$11.50 to \$12.50; alsike No. 2, per bushel, \$10.50; to \$11; alsike No. 3, per bushel, \$9.50 to \$10; red-clover seed, Ontario-grown, \$7 to \$9 per bushel; timothy No. 1, per bushel, \$1.90 to \$2.25; timothy No. 2, per bushel, \$1.25 to \$1.60.

#### COUNTRY PRODUCE.

Butter.—Market unchanged. Choice creameries, 32c. to 34c. per lb. rolls; creamery solids, 30c.; separator dairy, 28c. to 30c.; store lots, 24c.

Eggs.—New-laid, market easier, at 27c. to 30c.; cold-storage, 24c. to 25c.

Honey.—Extracted, No. 1 clover honey, 12½c.; cembs, per dozen sections, \$2.75

to \$3.

Beans.—Broken car lots, \$2.55 to \$2.65
for choice hand-picked and \$2.50 to

for choice hand-picked, and \$2.50 to \$2.60 for primes.

Poultry.—M. P. Mallon, wholesale dealer, reports receives as heirs follows:

dealer, reports receipts as being fairly liberal, at prices as follows for dress d: Turkeys, 20c. to 22c.; geese, 16c.; ducks, 18c. to 19c.; chickens, 15c. to 17c.; hens, 12c. to 13c. per lb.

Potatoes.—Market easier. Car lots of Ontario potatoes, track, Toronto, 65c.; New Brunswick Delawares, 80c. per bag in each case.

#### HIDES AND SKINS.

No. 1 inspected steers and cows, 14c., No. 2 inspected steers and cows, 13c.; city hid s, flat 13c.; country hides, cured, 12c.; country hides, green, 11c.; calf skins, per lb., 15c.; lamb skins, \$1 to \$1.35; horse hides, No. 1, \$3.50 each; horse hair, per lb., 37c.; tallow, No. 1, per lb., 5½c. to 6½c.

#### FRUITS AND VEGETABLES.

Fruits and vegetables of all kinds have been and are plentiful. Apples, especially of the No. 2 and 3 grades, are plentiful, and cheaper than a few weeks ago. Spies, No. 1, per barrel, \$3.25 to \$3.50; Spies, No. 2, \$2.50 to \$2.75; Spies, No. 3, \$1.50 to \$2; Greenings, No. 1, per barrel, \$2.50 to \$3; Baldwins, \$2.50 to \$3 per barrel; kings, No. 1, per barrel, \$3 to \$3.50; cabbage, per barrel, \$1; beets, per bag, 75c.; carrots, per bag, 75c.; turnips, per bag, 75c.; parsnips, per bag, 60c.

#### British Cattle Market.

John Rogers & Co. report Irish steers quoted at 13½c to 11c. per lb.

#### Montreal.

Live Stock.—There were more cattle on the local market last week than butchers called for, the result being that prices showed an easier tone, particularly as the quality of the stock offering was a little on the common side. Quite a few cattle were left unsold. The best animals on the market sold at 61c., and some fine stock at 6c. to 64c., while good stock ranged from 5 to, to 6c., considerable business being done at this range. Medium sold at 4jc. to 5c., and common ranged down to 4c. and 84c. per lb. A few canning animals sold at 3c. per lb. The market for sheep and lambs was steady, prices being 51c. to 5ic. per lb. for sheep; 4c. to 4ic. for bucks and culls, and 7c. to 71c. for lambs. Calves ranged all the way from \$3 to \$10 each, according to quality. Hogs were cheaper, ranging around 8tc. to 91c. per lb., according to quality, weighed off cars.

Horses,—Dealers reported a dull trade. The market was steady. Heavy draft horses, weighing from 1,300 to 1,700 lbs., \$300 to \$400; light draft horses. 1,400 to 1,500 lbs., \$225 to \$300; light horses, 1,000 to 1,100 lbs., \$125 to \$200; broken-down animals, \$75 to \$125 each. Choice saddle or carriage animals, \$350 to \$500 each.

Poultry.—The market for poultry was poor, but prices held fairly steady owing to scarcity of stock. Turkeys were 20c. to 21c. per lb.; geese, 12c. to 14c.; fowl, 10c. to 18c.; ducks, 14c. to 17c., and chickens, 14c. to 17c. per lb.

Dressed Hogs.—Country - dressed hogs were lower in price, being 12½c. to 12½c. per lb. for lights, and 11½c. to 12c. per lb. for heavies. Abattoir-dressed were 12½c. to 13c.

Potatoes.—There was little change in the market for potatoes. Car lots of Green Mountains sold at 7.5c. to 80c. per 90 lbs., track, while Quebec grades were 65c. to 70c. In a jobbing way, prices were 20c. to 25c. more than those

were 65c. to 70c. In a jobbing way, prices were 20c. to 25c. more than those quoted.

Eggs.—The mild weather had the effect of making people talk lower prices, though the scarcity of stock kept quotations fairly firm. Fresh-laid eggs, however, were said to be down to 35c. per

though the scarcity of stock kept quotations fairly firm. Fresh-laid eggs, however, were said to be down to 35c. per dozen, while some quote 30c., the drop in the price of American eggs being responsible, as well as the increased production of Canadian fresh. Select cold-storage eggs sold at 26c. to 28c.; No. 1 candled, 23c. to 25c., and second grades, 20c. to 21c.

Syrup and Honey.—White-clover comb honey was 16c. to 17c. per lb.; extracted, 11½c. to 12c.; dark comb. 14c. to 14½c., and extracted, 8c. to 9c. Maple syrup sold at 8c. to 10c. per lb. in tins, and 7c. to 8c. in wood. Sugar, 9c. lb.

and 7c. to 8c. in wood. Sugar, 9c. lb. Butter.—Choicest creamery was quoted at 29c. to 30c., and good at about a cent less. Fresh makes were not in very active demand, and prices held around 25c. to 27c. per lb. Dairies were 24c. to 25c. per lb.

Grain.—No. 2 Western oats were quoted at 41½c. to 42c. per bushel, carloads, ex store; extra No. 1 feed, 41c. to 41½c. No. 3 Canadian Western, and No. 1 feed, 40½c. to 41c. per bushel.

Flour.—There was no change in the local flour market. Manitoba spring, wheat patents were quoted at \$5.40 per barrel, in bags, for firsts, and at \$4.90 for seconds, whi'e strong bakers' sold at \$4.70. Ontario winter-wheat patents were \$5.35 in wood, and straight rollers \$4.95 to \$5 per barrel. Wood was 30c. per barrel more than jute.

Millfeed.—The market for millfeed was easy, there being a poor demand for the most part. Bran sold at \$20, and shorts at \$22, while middlings were \$27 per ton, in bags. Considerable American corn has been sold for feed it is said.

Hay.—No. 1 hay was \$14 to \$14.50 per ton; No. 2 extra, \$13 to \$13.50; No. 2 ordinary, \$12 to \$12.50; No. 3 hay and clover, about \$10 to \$11 per ton. This was for pressed, carloads. track, Montreal.

Hides.—After the changes of week before last, the market is steady. Beef hides sold at 12½c., 18½c and 14½c, per lb. for Nos. 3, 2 and 1; calf skins, 14c. and 16c., and sheep skins \$1 each. Horse hides were steady, at \$1.75 each for No. 2, and \$2.50 for No. 1. Tallow sold at 6c. to 6½c. per lb. for rendered, and 1½c. to 3c. for rough.

#### Buffalo.

Cattle.—Prime ateers, \$8.50 to \$8.75; butchers', \$6 to \$8.25; bulls, \$4 to \$6.50; stock heifers, \$4 to \$4.50; shipping, \$7.25 to \$8.25; heifers, \$4.75 to \$7.50; cows, \$8.25 to \$6.50; stockers and feeders, \$4.50 to \$6.75; cows and springers, \$85 to \$80.

Veals.—\$4 to \$12, Hogs.—Heavy, \$7.65 to \$7.70; mixed, Yorkers and pigs, \$7.70 to \$7.75; roughs, \$6.75 to \$6.90; stags, \$5.50 to \$6.25; dairies, \$7.50 to \$7.70.

Sheep and Lambs.—Lambs, \$6 to \$9.10; yearings, \$5 to \$8; wethers, \$6.25 to \$6.30; ewes, \$3.50 to \$3.75; sheep, mixed, \$4.50 to \$6.

#### Chicago.

Cattle—Beeves, \$6 to \$9.05; Texas steers, \$4.70 to \$5.80; stockers and feeders, \$4.90 to \$7.50; cows and heifers, \$2.70 to \$7.20; calves, \$7 to \$11.

Hogs.—Light, \$7.85 to \$7.62\frac{1}{2}; mixed,

Hogs.—Light, \$7.85 to \$7.62\frac{1}{2}; mixed, \$7.85 to \$7.62\frac{1}{2}; heavy, \$7.10 to \$7.65; rough, \$7.10 to \$7.80; pigs, \$5.75 to \$7.40.

Sheep and Lambs.—Sheep, native, \$4.75 to \$6.25; yearlings, \$6.40 to \$8; lambs, native, \$6.70 to \$9.

#### GOSSIP.

POSTPONED SALE.

Owing to bad weather delaying steamship, the date fixed for the sale of imported Clydesdale mares, by John Semple, Milverton, Ont., may have to be postponed. Notice of changed date may be looked for in our next issue.

SALE DATES CLAIMED.

Feb. 5th.—Annual Consignment Sale, Toronto; Shorthorns. Feb. 5th.—T. H. Hassard, Markham,

Feb. 5th.—T. H. Hassard, Markham, Ont., sale at Toronto; Percherons and Clydesdales. Feb. 7th.—Graham - Renfrew Co., Bedford

Park, Ont., at Burns & Shephard's Repository, Toronto; Clydes and Hackneys.

Feb. 12th.—Geo. Davis & Sons Ecin

Feb. 12th.—Geo. Davis & Sons, Erin, Ont.; Aberdeen-Angus. Feb. 14th.—Fred Bogart, Kettleby, Ont.;

Shorthorns.

Feb. 25th and 26th.—Union Stock-yards

Co., Ltd., Toronto; Clydesdales and

Percherons.

March 5th.—Annual Contribution Sale of pure-bred cattle, at Guelph, Ont.
March 6th.—James Cowan, Seaforth, Ont.: Shorthorns.

The dispersion sale of Fred A. Bogart, Kettleby, Ont., will be one of the most important events of the season. Founded several years ago, by selections from the famous herds of John M. Gardhouse, Weston, and Geo. M. Raikes, Barrie, Ont., Shorthorn breeders know they have been chosen from two first - class herds The stock bull (Scottie) is a winner in any company, with model head, strong, level back, deep rib and flank, with splend d hind quarters. No one will be disappointed in the cows and heifers, many of which are first-class show propositions. Uniformity of type and quality is a striking scature. They are thick - fleshed, strong-backed, with every indication of sound constitution. All will be sold, without reserve, as Mr. Bogart has sold his farm, and must make room for his successor. The date is-February 14th.

R. Hamilton & Son, Simcoe, Ont., widely known as importers of high-class-Percheron horses, report an exceptionally good trade so far in the new year. Among the recent sales are: To the-Fon.h.ll Percheron-breeders' Association, the grand, black three-year-old stallion, Justicier (3033), an exceptionally wellbred horse; to D. C. Warner and F. H. Stewart, the five-year-old stallion Hivernage (3026), which weighed, when sold, 2,165 lbs., and has quality at every point; to R. Watson, the three very highclass stallions, Inda 3030, Ibis 3029, and Jansenius 3032; to John Buckingham, Becher, Ont., the three-year-o'd stallion, Joney 3035. Messrs. Hamilton write: still have a very select lot on hand. We "Our mares are also selling fast, but wehave recently shipped mares to Quebec, Nova Scotia, and Alberta, besides selling several in Western Ontario. Our mares nearly all show to be in foal, and interested parties should see them before buying elsewhere, as we are satisfied we have what will suit them at a reasonableprice."

0 to \$8.75; ulls, \$4 to \$4.50; ships. \$4.75 to 50; stockers cows and

NDED 1866

7.70; mixed, to \$7.75; s, \$5.50 to \$6 to \$9.10; \$, \$6.25 to

3.75; sheep,

9.05; Texas tockers and and heifers, \$11.

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Stock-yards dales and

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A. Bogart, f the most n. Foundtions from Gardhouse, s, Barrie, they have ass hards winner in d. strong, lank, with ne will be nd heifers. show propand qual-They are vith every tion. All as Mr. Bonust make

ne date is

coe, Ont., high-class. captionally new year. To the ssociation, d stallion, nally welland F. H. ion Hivervhen sold, at every very high-3029, and ckingham, d stallion, on write hand. We it, but we o Quebec, sides sellrio. Our foal, and em before

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Around by The Bridge.

(By Margaret Grant McWhirter.)

We had only gone a short way when fingers and toes began to respond to the touch of Jack Frost. The air was heavy with a prophecy of a coming storm—the tang of approaching winter was in the air. And the roads-how rough they were, as boy and I bumped along over the frozen ground. I begged a lessening of speed till we should reach a smoother road. It was a new journey to the boy, and very proud he was of the expedition.

The crossing by the ferry being impracticable on account of the heavy frost of the two preceding nights, we took the road "Around by the Bridge" in order to reach our destination—a farm house in the township of Maria. Presently the road led through woodland country, up hill and down dale, till we reached the river road. Pleasantly the time passed, pointing out to boy the houses we passed on our way, as well as the remains of an old mill-dam, where the water pours over and between the great logs, while trees and shrubs bereft of foliage, grow all around, and farther below the brook winds its way to the river. Driving in the teeth of a frostladen west wind, fingers and toes become insistent, so we halt at a store in Grand Cascapedia where the genial lady in charge stirs the slumbering embers, and, adding fr?sh fuel, soon has us comfortable. Here is the necleus of a village. The stores of J. A. Campbell and the Messrs. Nadeau cater to the inhabitants, and the saw mill of the latter firm gives employment to the people of the vicinity. There are many large and comfortable houses, while a flour milt of the latest improved roller process is situated on the opposite side of the river.

Ere long we reach the iron bridge of the Quebec Oriental Railway, built above for trains; below for foot and horse. [A paper by Mrs. G. E. Godkin, of the How eagerly the boy scanned the wonderful structure, murmuring the while, "I wish the road was all bridge"-a sentiment which finds no response in my

The Grand Cascapedia River! How beautiful, as it winds about, intercepted with islands,-presenting a panorama of wonderful heauty. To the left, high wooded banks, to the right the mountain-side; between flows the beautiful river abounding in salmon and trout, while below rich flats spread abroad. The road rescued from the mountain, and protected on the river-side by a cribwharfing, appears dangerous enough to timid souls, and I bid the boy "hug the hill," which looks as though it might be able to produce a landslide on short notice. Still down river-and lo! A little schoolhouse with happy children amusing themselves at the noon hour. To one little fellow who rushes near our horse I call a warning, for "Charley" has taken a nip from the unwary before this.

The youngster scurries away amid the laughter of his companions, and we pass on

A glad welcome and warm dinner meet us when we draw rein at our friend's house. With happy intercourse, all too soon the hours pass. notice with a pang the traces of advancing age on the couple, and sadly the conviction is forced upon us that for them,-life's battle having been bravely fought, its duties and difficulties faced and surmounted-the journey cannot be much longer; together, "hand in hand," they descend life's hill. May our conscience be as clear of neglected duties and graces as that of our old friends when we, too, draw near the "parting of the ways."

turns away from a huge piece of cake. The prophecy of the morning is evi-

At last, with hearty au revoirs, we be removed, but do not make the room are en route for home. Boy's pock- too unattractive. Short, washable curets bulge in every direction: they can-not hold another apple. Boy's ap-the tables, and a few fresh flowers, will petite, too, is satiated; reluctantly he help so much to make the sick-room bright and cheerful.

The prophecy of the morning is evidently not to fail of fulfilment. The air or three-quarter width. The double bed is filled with snow-flurries. The day is is inadvisable, for, owing to the width,

done. In the darkness we allow our the mattress is apt to sink in the midhorse to take his own gait over the dle, and it is then almost impossible to

Bridge, Grand Cascapedia River, Quebec

provement since our passing in the

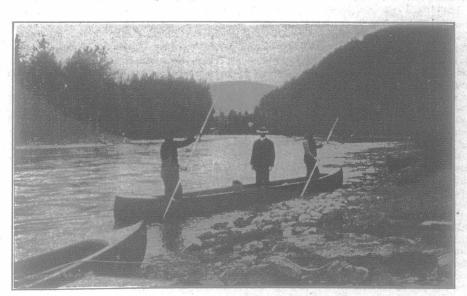
Home Nursing.

Soperton branch ol the Women's Institute.]

Sunshine, pure, fresh air, and freedom from noise and odors, are the principal things to be considered in choosing a When possible, it is advis- heating, and, when occupied, it is

rough road, which shows no sign of im- keep the undersheets drawn tightly enough to prevent wrinkles. The bed should be twenty-five inches in height. and if it is not, it can be easily made so by placing heavy blocks of wood under each leg. This is especially necessary if the patient is likely to be long in bed. The trouble of doing this is well repaid by the convenience of lifting and working over the patient.

The hair mattress is by far the best, the feather one the worst, as it is too



Scene on the Grand Cascapedia River, Quebec.

exposure. If there is a fire-place in the room so much the better, as a chimney is an excellent medium for ventilation. Despite the fact that a sick-room at the top of the house gives many steps to climb, it is much better to have it there. It is further from noises, and the air is generally purer. Only necessary articles of furniture should be retained. All draperies and upholstered furniture should

able to have a room with a southern possible to make the bed properly. The bed should be placed far enough from the wall to have free access on all sides, and care should be taken to avoid having the light in the patient's eyes. The best plan is to have the window behind the bed, then more sun and light can be admitted without disturbing the patient. It is a great mistake to keep a sick-

the motion is art to irritate the patient. Never leave empty or half-empty glasses of milk or broth standing by the patient. Medicine bottles and all necessary utensils should be kept in an adjoining room, if possible.

The floor should be swept with a soft broom, covered with cheesecloth, which is free from lint. Carpets are very objectionable, small rugs, which can be shaken daily, being preferable. Never use a feather duster, but clean, soft dust cloths, which may be washed every day. The air in the sick-room must be pure. The value of fresh air as an aid to recovery is sadly underrated. The open

fire-place is one of the best methods of ventilation. The temperature of the sick-room should be 66 degrees at night, and 70 degrees during the day. To properly care for a patient, those

undertaking the responsibility of the nursing must take proper care of themselves. Rest and out of door exercise are positive necessities. If the same member of the family has both day and night nursing to do, she should always dress herself as comfortably as possible for the night. A cold bath in the morning, with a complete change of clothing, will be found refreshing. Dresses of washable material should always, be worn when attending the sick.

Never whisper in or near the sick-room Never discuss the patient's condition with her, or with any person in her hearing. Never tell the patient what her temperature, pulse, etc., are, even when they are normal. When speaking to a Patient, always stand in front of her, where she can see you, for when people are ill and nervous they are easily startled. Keep door and window hinges well oiled. Nothing is more aggravating than a squeaking door.

When getting ready for the night, attention must be paid to anything likely to disturb the patient's rest, Before the patient goes to sleep see that you have everything at hand that you will likely need for the night : extra blankets, a shade for the light, coal prepared in paper bags, milk, water, all the medicines you will require, and ice; wrapping the ice in flannel or newspapers keep it from melting, and a hat-pin makes an excellent and noiseless ice-pick. A' large tin pan enveloped in a blanket will make a serviceable refrigerator in which to keep your ice, broth, milk, and water.

The mattress is covered by a sheet stretched lightly and tucked firmly as far under as possible. Another sheet called the draw-sheet, is also used under the patient. This is put on with the length across the bed, taking great care to have it tight. When it is necessary to protect the mattress, a rubber sheet is placed between the lower and drawsheets. White, double - faced rubber, to the nicest for home use. In cases of emergency, several thicknesses of newspaper may be used until something better can be obtained.

The heat of the blood is ascertained by means of the clinical thermometer. thermometer. These thermometers are self - registering. and vary in delicacy, the finest registering in one minute; others in three to five minutes. The Hicks thermometer is recommended as one of the best. The temperature is taken in the mouth, or armpit, care being taken to shake down the mercury to 95 degrees. Never take the temperature of a delirious person, or a child, in the mouth.

When nursing contagious diseases, take sufficient sleep and rest, but never in patient's room, as it is when the muscles are relaxed, as they are when rest-It is a great mistake to keep a sicking, that the greatest danger of infec-room darkened. Rocking chairs should tion comes. A daily walk in the fresh never be permitted in a sick room, as air is necessary, also a bath daily, with a change of clothing at least, three times a week. The clothing must be disin-

When working over the patient, never stoop so that you inhale her breath; never kiss your patient. Before meals. wash and disinfect your hands, rinse your mouth with a solution of listerine, and never eat in the patient's room. The nursing of infectious and contagious diseases in the same as in all other cases of fever. Always remember that vassline applied to the parched lips will give great relief, especially to typhoid patients. In giving medicine, always give exactly what the doctor orders. and always give it on time.

Never give medicine without reading the label, and do not use spoons for measuring, as they are never accurate.

Small graduating glasses can be bought at any drug store for ten cents. The bottle should always be recorked immedistely after use, and all poisons should be marked as such, and kept under lock and key.

#### The Windrow.

It is now asserted by physicians that infantile paralysis is spread by the bite of the stable fly.

A painting, "Dancers," by the French artist, Degas, was recently sold in Paris for \$87,000, the highest price ever paid for a work by a living painter. It will probably be added to the collection of Mrs. J. M. Sears, Boston. At the same sale, Goya's "Spanish Woman," was sold to an Irishman, Sir Hugh Lane, for \$21,240. The Degas canvas was 2 feet 3 inches long, and 2 feet 2 inches broad.

The Woolworth Building in New York, the tallest in the world, is 750 feet, or 51 stories high.

"Anna Boberg, a Swedish artist, the only woman represented at the recent exhibit of Scand navinn art in New York, sought in vain adequate expression for the artistic in her soul, until, acting upon a happy inspiration, she cast her lot among the simple fishing folk of the North. There, beyond the Arctic Circle, she lives in the Lofoten Islands, tossing about in rude fishing craft, or, enveloped in sealskins, painting in the open the salty studies of snow-ribbed mountains plunging into the waves, and ribboned sails putting out to sea, for which she has become famous."-Literary Digest.

"Long before Thomas A. Edison had become widely famous, in other words, when in 1877 he was engaged in developing and improving the telephone, he that in the transmitter, which has since borne his name, when the voice was directed against the face of the disk, the vibrations would cause the pin attached to prick his fingers, or indent any soft substance held near it. He stored this fact away in his mind, but it suggested nothing of special interest to him. Even before that time he had perfected an invention for the automatic repetition of telegraph messages, consisting of an apparatus by means of which the dots and dashes of the original message were recorded in a series of indentations on the strip of paper which followed afterward could be fed into a sending machine, and thus the famous inventor recorded another link unconmeeted but important. An assistant of Edison, in speaking about the talking machine, once said: 'I remember that Edison had been working at his bench in the laboratory nearly all day, silent for the most part. Quite suddenly he jumped up anh said with some excitement, "By George, I can make a talking machine!" Then he sat down and drew the designs of his proposed machine I don't on a slip of yellow paper. think it took above ten minutes alto-A model of this machine was made within thirty-six hours, at a cost of \$8.

"It was fitted with tin foil, and Mr. Edison, turning the handle, spoke into the mouthpiece the nursery rhyme beginning, 'Mary had a little lamb.' Then he set the recorder back to the starting place and again turned the cylinder. To the astonishment and even awe of

everybody, the machine began to repeat, in a curious metalic but distinct voice, 'Mary had a little lamb.' "-American Exporter.

In all his writings, Dr. Woods Hutchinson emphasizes the conditions essential to wholesome living. These are abundance of simple, nutritious food, wellheated and well-ventilated quarters in home, school, and shop, and daily exercise in the open air. "And the best " he says, "to ventilate yourself is to turn yourself out of doors frequently. No system of ventilation that has yet been devised, however ideal and perfect in every respect, has ever been able to make it wholesome for a child to remain indoors for more than an hour at a stretch, or an adult for more than three hours, except when asleep." There are intelligent and progressive housekeepers everywhere who know the conditions that make for wholesome living; the crying need in that the number of such should be greatly increased. No longer should our physical well-being be regulated to realms of luck and chance; it rests upon the knowledge and observance of natural laws, in the keeping of which there is great reward.-Boston Cooking School

#### Ten Books Every One Should Read.

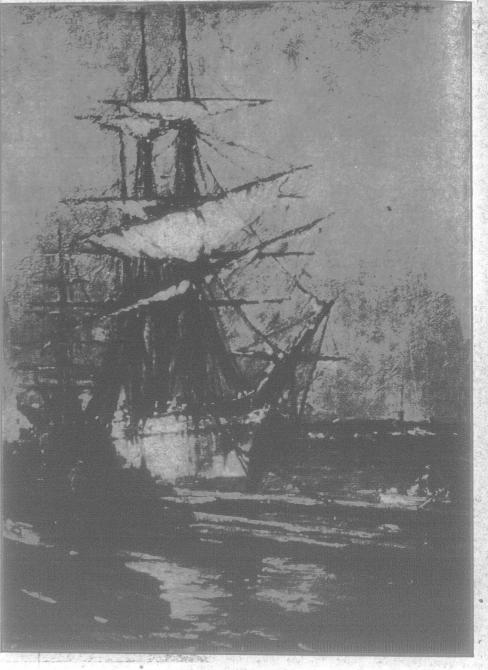
[A paper given by Mrs. Chas. Hancock at a meeting of the Starkville Branch of the Women's Institute.)

In considering the subject, 'Ten Books Everyone Should Read," the first problem that confronted me was, "What is meant by everyone?" "Of the reading of books," it has been said, "there is no end," and from the many adapted to such varying needs and conditions, l have endeavored to choose ten which we, I think, as members of the Women's Institute, should read.

First of all stands pre-eminently the Bible. In it we find help and advice for all times and occasions, and, looking at it from a practical point of view, where can we, as present or prospective housekeepers, find better morals to copy than Martha the careful; Dorcas the charitable, or Hannah the devout mother ?-while Solomon's perfect woman spoken of in Proverbs, 31st chapter, may well be copied by each one of us. all remember the description, beginning, 'Who can find a virtuous woman? for her price is far above rubies," and leading up through a list of housewifely virtues to the climax, "Favor is deceitful and beauty is vain, but a woman that feareth the Lord, she shall be praised." Surely, with all our boasted twentieth-century advantages, we cannot produce more perfect specimens than the one here pictured. Next to the Bible stands, in impor-

tance, I think, some reliable history of our own land. It always seems a pitiful thing when anyone, man or woman, can answer glibly almost any question on, say, the price of stocks, or the latest trimming for spring hats, but on matters relating to the growth of our own fair Dominion, is obliged to maintain a painful silence. I know of nothing in the way of literature more fascinating than Dr. Withrow's "History of Canada." From cover to cover it is filled with information told in such an interesting manner that when one has started reading one is loath to lay the book down. So fascinating is the story of the early Indian occupants, the long struggle for mastery between the French and English, the final supremacy of the latter, and the attempts to found and develop a colony in this country, until our "Land of the Maple" became what she is, the fairest jewel in the Crown of the British Empire. The only fault one can find with the book is that there is not enough of it. The work, as it stands, only deals, with Canadian history as far as 1876, or shortly after confederation, but by supplementing it with current history as found in our newspapers and magazines, we can have a pretty intelligent idea of the growth and progress of Canada, our Home.

Most of us, I suppose, enjoy books of travel, and I know of none more interesting and instructive than one pub-



"Evening Glow." From a painting by F. McGillivray Knowles, R. C. A. Exhibited at the Royal Academy Exhibition, Ottawa.

ten by one of the correspondents appointed to accompany the present King and Queen in their recent tour around the world. After reading it, I realized, as never before, how grossly ignorant most of us are as to the extent and nature of the vast British Empire of which we form a part. It follows the course of the royal party, describes the countries and principalities visited, touches in a few words on the receptions accorded the regal visitors, and, I think, makes one feel close akin to our brothers in India, Ceylon, Australia, and the other British Colonies.

There is a small book, occupying but little space on any book-shelf, but which has proved of large value in many homes, and which I think should be within the reach of all. It is called. "Emergencies, and How to Meet Them," by Dr. Dulles. It deals in brief, concise manner, with such subjects as poison and antidotes; treatment of drowning, sunstroke, etc., removing foreign bodies from eye, ear, etc.; treatment of sprains, burns, and so on. No doubt most of us know these things, but the difficult matter is to remember them at the time when they would prove most useful, and it is a great comfort to have close at hand something that will tell us exactly what to do with the least possible loss of time.

Another tiny book that must be valued for its real worth rather than its size, is "The Care and Feeding of Children," by Dr. Emmet Holt. While we may not all be mothers, we are all brought more or less in touch with children at one time or another, and mone of us can be too well informed as to the proper method of treating them. Mothers, and older sisters, will find lots of information, while the older mothers who have served their apprenticeship, will at least find amusement in criticising what no doubt some of them will term the newlished a few years ago by E. F. Knight, fangled way of raising babies. The

"With the Royal Tour." It was writ- book is in the form of a catechism, and questions are asked and answered on such subjects as baby's bath, chathing, etc.; the care of eyes, mouth, etc. also deals with the more common ailments of children, colic, earache, convulsions, and so on, and considerable space is devoted to the important subject-the artificial feeding of infants. When one thinks for a moment of the hundreds of little lives sacrificed each year through ignorance or carelessness on this vital subject, one cannot help wishing that this little volume might be in the hands of every woman, especially every mother who is unfortunate enough to be obliged to resort to this unnatural method of feeding her little ones.

There is an old saying that "all the world loves a lover," and it is equally true that all the world, or, at any rate, all the feminine half of it, loves a love story, and it is right that this should be so. In this prosaic work - a - day world, it does us good to forget, once in a while, the sordid cares and worries of life, and live for a time amongst the rose-colored scenes of romance. The works of fiction are quite right and proper in their place, provided that taste is not indulged at the expense of all solid reading. In the line of fiction, I think I never read a cleaner, sweeter love story than the one Mrs. Craik has told us in her inimitable "John Halifax, Gentleman." If my choice of fiction were to be restricted to one volume, it should certainly be that, for one might look far before finding a purer, more lovable character than the heroine, Ursula March, or a nobler type of man than John Halifax, honest as the day, and proud to a degree, and knowing no other fortune than the honor of being able to write his name, "John Halifax, Gentleman." There are some very dainty passages in the book, and one cannot help feeling refreshed and helped by an hour spent in reading it.

There is one volume that I would like

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To dreds deed which which

to place in the hands of all my girl riends, Ruskin's beautiful "Sesame and Lilies." would be benefited by reading it. consists of three lectures, each of which is adapted to some special condition of The preface especially is full of advice to young people as to how to conduct themselves so as to make each day a step further on the way to perfection, for, as he truly says, "Every day of your early life is ordaining irrevesably for good or evil the custom and practice of your souls." The first lecture, "Of Kings' Treasures," deals with the choice of books; the second, "Of Queens' Gardens," treats of the place and power of woman, and the education that fits her for that place; while the third, on "The Mystery of Life," centers largely around that passage of Scripture, "For what is your life? It is even as a vapor that appeareth for a

little time and then vanisheth away."

Each of us, no doubt, loves poetry in its many forms, and it is hard to choose any one poet who is especially helpful to us as women. To me, it is always hard to choose between our own English Tennyson and the more simple, homelike Longfellow. Each of them has written so much that is helpful that I wish my choice might include both. If I were to read only one, however, I think it should be Longfellow, with his cheery, helpful verses. The short poem, "The Rainy Day," with its comforting message, "Be still, sad heart, and cease repining, Behind you cloud is the sun still shining," is enough to drive away the worst attack of blues. It would be useless to attempt to describe to anyone the beauties of Longfellow. To read him is to love him, and the proof is, that once having read, one comes back agein and again, finding each time fresh beauty.

If we were to consult our husbands and brothers as to what books to read, no doubt some of them would advise the cook-book, and, all joking aside, we could do worse at times than to follow their advice. While some certain cake or pudding that we make may be almost perfect in its way, we must not forget that even the most perfect article may become tiresome if two often repeated, and that a change may be appreciated. A reliable cook-book is a great help to all of us. Which of us does not know how confusing it is to be told by some old housekeeper to "put in flour till it feels right," or to "cook till it looks done"? We may not all be gifted with the knowledge or experience which enables us always to know just when a thing is right, and at such times a book that says in explicit terms just what is required, is a great help. Haphazard cooking may occasionally turn out all right, but, as a rule, there is a series of wasteful failures before reaching the goal of perfection. It would be hard to choose any one particularly good cook-book, as so many are published containing, besides recipes, much useful information dealing with the choice and preparation of food.

No doubt we have all heard the story of the old woman who, in order to appear learned, used to horrow books from her minister. Becoming suspicious that the books were simply kept for a time and then returned, the minister lent her an ordinary English Dictionary. When it was returned, he asked his literary friend how she enjoyed it. "Fine, sir, she replied, "but I found it a little hard at times to follow the thread of the discourse." While we might have the same trouble, it might not do any of us harm to pay a little more attention to our dictionaries. In our reading we are constantly running across words of which we are not exactly sure. Two minutes spent then in consulting some standard dictionary, we will find time well spent, and we will be amply repaid for our trouble by our growing familiarity with this language, which we all use more or less correctly every day of our lives.

To choose ten out of the many hundreds of books already published is indeed a difficult task, but these are ten which have proved helpful to me, and which I think are worth consideration from every member of the Women's In-

Something About Organized Effort.

cessity for a custodial care by a paternal may see there conceit, selfishness, the government of these unhappy people. love of worldly praise and admiration, ized Effort.

In "The Farmer's Advocate" of 19th December, "Junia," in her Ingle Nook pages, gave a delightful synopsis of the happenings at the big Convention of the Women's Institutes, lately held in Toronto. Whether as a retrospect of the past, or as an inspiration for the future, it is encouraging reading for every woman who has already joined hands or intends to do so, in those sisterhoods of loving service, which, while working on distinctive lines, and in various sections of the Dominion, are, when combined for organized effort to suppress evil or to promote good, known to us all under the one comprehensive title of the National Council of Women of Canada. When women join hand in hand to better conditions for those whose lot is cast in less favorable conditions than their own, who can stay them? Please look over Junia's columns, on page 2238, and see if by being on the watchtower for opportunities of service, you may not be able to take a very helpful part in blocking the but too rapid progress of at least one or two of the many serious evils which have already gained such a foothold in our land. For instance, can you not do something to help in one of the most important committees of National Council work, that of the suppression of objectionable printed matter? Whilst hitherto inquiries. seem to have resulted largely in blaming other countries for the influx of such detestible sources of contamination, and the post-office authorities have been the official means of destroying tons of the poisonous stuff when seeking entry into Canada, there seems to be traitors within our camp, and one firm of printers alone has been found to have issued in the past year over 50,000 indecent post cards. Should such come your way, please do not just throw them into the fire, but communicate the fact to the Central Convener of that Special Committee, Mrs. Liddell, 48 Lorne avenue, Montreal. Organization has done much towards getting at the root of this and other kindred evils, but it is the duty of the individuals which form that organization to "watch out" the information upon which results de-

In the matter of the feeble-minded, late investigations have resulted in a-certaining that, to-day, in Canada, there are 6,000 known cases of that class of unrecognized as feeble - minded. probably a very imperfect computation after all, owing to many difficulties met with in seeking to arrive at a correct conclusion, many relatives concealing the fact that they number such afflicted ones amongst their families.

To effectually apply a remedy for any disease, the medical man must be told of every symptom already manifested by the patient, so if the curse of feeblemindedness is ever to be effectually stamped out, the sources through which it is promuleated must; in the interests of the present generation, and generations yet to come, he discovered, and, where possible, rendered innocuous.

Statistics prove what a menace to the physical and moral well-being of the people of Canada is the existence of this mental disease. The records of our charitable institutions show how many of their inmates come from that class of unfortunates, whilst it is a wellknown fact that a very large percentage of the criminals in our jails come from the ranks of these irresponsibles, "the most pitiable class in the world." Feeble-minded girls, many of them at a pitifully early age, are the easy prey of evil-minded men, and are thus the cause of bringing into the world children as mentally unfit as themselves.

In one poor house alone, as the result of the unprotected state of one feebleminded woman alone, there are five children, the eldest not yet eight, and all feeble-minded! Make for yourselves a will the better realize the absolute ne- tory. God, Who looks at the heart;

'Nothing," it has been said, "could be more economical, more sensible, more patriotic, or more kind, humane, Christlike, than this. We pay the bill now, not only for the maintenance of the feeble-minded and their children, but for the crimes they perpetrate, and the idleness, and worse, in which they live. We put them into institutions now, but at the wrong time, and in the wrong place. There is no use locking the stable door after the steed is stolen." The voice of the women of the land, through their organizations, has been raised in appeal to the authorities of our land to some solution for one of the most serious problems of the day, and until a plan of the custodial care of these unfortunates is found, every woman should continue to raise her voice on their behalf.

Junia, in allusion to this subject, and in direct appeal to the members of the Women's Institutes save with emphasia. "Think of it-the stamping out of feeblemindedness from our country within a generation! We hear much of eugenics in, these days, and are likely to hear much more. Here is one definite line in which the women of Canada can distinctly contribute to the uplift of the race in Canada."

Amongst many good things said on the occasion of the annual meeting of the National Council of Women, held in London during the last summer, was the, following, by Mr. Coote, a distinguished English philanthropist, whose more definite message perhaps was to warn our Canadian people of the growing and insidious dangers of what is known as the white-slave traffic. "Organization," he said, "is what the world needs most today. Individual workers, if they would achieve all they are trying for, should keep close together, and this is the great advantage of such an organization as the N. C. W. A snowflake is an insignificant thing, but an organized snowdrift, made up of millions of such little flakes, can block a mighty train." And it is some such an accumulated snowbank, made up of its myriads of such, seemingly powerless atoms, which is, needed in Canada to block the progress of so much that is harmful in our midst.

Let none who can lend us a hand refuse to do so, for this is our day of opportunity. H. A. B.

# Hope's Quiet Hour.

Glorify Your Father.

Let your light so shine before men that they may see your good work, and glorify your Father which is in heaven. St. Matt. v.: 16.

How familiar those words are, and how little they are regarded! The first part is easy. We are all willing to let our best points be seen, and unwilling to make public our defects. Why? it that men may glorify God, or that they may respect and admire us? test of every act is the motive behind it. Our Lord has warned us that righteousness done before men-to be seen of them-will have no value in the eyes of Him Who is the only righteous Judge. A life may be crowded with "good works"-long prayers, gifts to the poor, untiring service-and yet it may be swayed and inspired almost entirely by self-love, or the love of the world. The ruling passion will grow stronger and stronger each year, so-if we value the opportunity of this earthly life-we must be very honest with ourselves, very frank in our answers to God's searching questions. We can't afford to cover up our motives, for if we are ashamed to confess them before God-Who knows them quite well already-or to face them ourselves, they may spoil the whole beauty of our lives. We may be selfdeceived, heaping up a growing pile of apparently beautiful "good things," which win for us the praise of men, and finding ourselves at last with scarcely one act of real loving-kindness which we dare lay at God's feet. When a man's reputation is good, and all men speak well of him, it is very easy to think little arithmetical calculation, and you that his spiritual condition is satisfac-

but nothing precious in His sight.

"Why don't you give away a million or two?" said one man to another.

"Why, that's the difficulty," was the answer. "It isn't easy to give away a million in such a manner as to win lasting reputation and make it worth

That little conversation never took place, of course. People don t coulesa such motives even to themselves, but they may be there, all the same, slowly poisoning the springs of life. Some philanthropists and busy church-workers may, in God's sight, be stamped with the hateful name of "Hypocrite." While there is time, let us look to ourselves and see whether we are not more willing to do good works which other peopie will probably know about and admire, than those which no one but God is ever likely to hear about. Perhaps our motives are mixed. There may be some real love for our fellows, and some desire to glorify God, mixed with a wish to gratify self-love. Perhaps we have been very active in helping someone, and that other person has made us feel vexed by showing little or no appreciation of our efforts. We did not work for thanks but it is irritating to have no notice taken of our kindness. It seems to be wasted. If it was prompted by love to God or man, it could not have been wasted, for God has joyfully accepted the gift, and man has been helped by the service. But the fact that we were hurt in our feelings by the ingratitude proves that the reward we were seeking was a solfish one. Instead of feeting pleased with ourselves for the nobility of our own action, we should go down on our knees and ask forgiveness for the selfishness of our ambition. instead of lamenting the narrowness

of opportunity, and thinking discontent edly of the aplendid things we should like to do if only we had a chance, let us remember that everyone has the same chance to live splendidly. Two mes may be equally heroic in reality; but one may astonish the world and himself by some deed of daring which came in his way, while the other may fancy that his years of quietly doing his duty are very commonplace if they are inspired by unselfish love. His glory can shine through such transparent lives, and give light to all around.

"Who are these that, linking hand hand. Transmit across the twilight waste of

YOUTE The flying brightness of a kindled hour? Not always, nor alone, the lives that search

How they may match a glory out of hen Ven. ld a height to Babel, oftener the

That in the still fulfilment of each day's Pacific order hold great deeds in leash, That in the sober sheath of tranquil tasks. Hide the attempered blade of high em-

prise, And leap like lightning to the clap of fate."

One sad result af a habit of looking out constantly for the approval of men, is that the inspiration usually fails on when the chance to do a splendid deed arrives. When the great aim of life is to be admired, self-love is really the ruling passion; and selfishness will make us shrink when danger tests us. real character will come to the top, and we shall stand self-revealed.

It is necessary to cultivate the habit of leve which "seeketh not her own," if we want to have it ready for use in a sudden emergency. We never know when it may be needed, and only God knows how we will act when the emergency arrives.

A few years ago there was a terrible railway accident, and more than a hundred people were badly injured or killed. A frightful storm of sleet added to their sufferings. The next train was due ave hours, and it seemed as though no help could be obtained before that time. But a telegraph lineman was in the baggage car, with his satchel of instruments strapped to his shoulder. He crawled out from under the wreak, terribly injured, but conscious. "Out in en the telegraph)" he shouted, but he

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was the only one who knew what to do and how to do it. Though both legs were crushed, and he was bleeding to death, they hoisted him up, and he cut in on the wire and pounded his key for ten minutes before he got an answer. Then he sent the life-saving message: "Number 17. terribly wrecked . . . . send hospital train." Tenderly his crushed body was cared for by his comrades, but he had passed away before the hospital train had been rushed to the spot. He saved others, careless of his own dying agony. Only God knows how he had been trained by years of

unselfish service for that glorious death. God gives us the schooling required; and every act of service, done for His glory and not for our own, will make us stronger. We can't afford to waste His precious schooling by working for our.

own glorification. We want to improve, therefore let us try to be glad when other people find fault with us. If the faults are there, we want to get rid of them; and our task is made easier when they are pointed out to us. A leader once said about a girl he had been carefully observing : "She is a pretty good worker, but she can't bear to be criticised; therefore she will never be first-class." When criti-When criticism angers us, and we are too thinskinned to endure a shadow of blame without vexation, it must be because we care more about reputation than character, would rather be admired than

learn how to climb higher. When ridicule, or even a little goodnatured teasing can turn us from the way we feel to be right, it is a proof that we are more eager to win the praise of men than the praise of God. As a matter of fact, the people who are always afraid of doing something that is not not "quite the thing," or of wearing something that is "not correct," or of saying something which may be thought "out of date," are seldom respected or admired. Everyone respects a man who has the courage to act as he thinks right, no matter what his fellows may say. It is not easy to stand alone. The other day I saw a young girl standing, leaning on crutches, where others were kneeling at the Com-munion rail. It was a small act of courage, perhaps; but it made her appear conspicuous, and she was too shy for, the position to be an easy one. It. was an outward sign that she was brave enough to stand alone. She could not kneel like the people beside her, and Christ Himself had told her to come to the Holy Communion. By simple obedionce, she glorified Him and inspired others to obey Him, too.

If you've got a song in you—sing it, Though all the critics jeer, Out from the soul of you bring it, And those who need will hear. Though some say 'it's a trite one,' And loudly their laughter fling, Your song will reach to the Right One.

DORA FARNCOMB.

#### "THE NEW PUBLIC HEALTH."

The Farmer's Advocate Bureau of Public Health Information.

QUESTIONS, ANSWERS, AND COM-MENTS.

Conducted by Institute of Public Health,

London, Ont. [Questions should be addressed: "New Public Health, care of 'The Farmer's Advocate, London, Ont." Private questions, accompanied by a stamped, selfaddressed envelope, will receive private answers. Medical treatment for indi-

vidual cases cannot be prescribed.] Most people think that health officers are "stuffy" people, always trying to find some fault with the backyard or the drains, or criticizing the cleanliness of the house, the neatness of the children, the order in the kitchen, and sniffing for bad smells wherever they go.

And this is just what the old-fashioned health officer was, twenty or thirty years ago. If he found any old rags under the cellar door, or a deposit of bones that Fido had half-hidden in the garden, he was delighted, because he thought he had found a leak in the health of the community that he could

done faithfully and well.

But this picture of a health officer is no longer correct. Bad smells are disagreeable enough to all of us, and may nauseate some of us. But they do not produce typhoid fever or diphtheria or tuberculosis. Nor does the dirty thing which makes the bad smell produce these diseases, or any other, unless it has the actual germ of that particular disease on it or in it. This very seldom happens, unless the dirty thing came from a patient having that particular disease, or handled by someone who had the germs in them or on them.

This is not a plea for dirt. Dirt is disgusting, disagreeable, possibly harmful in minor ways. But dirt does not breed disease in the ordinary sense, although it helps to breed flies, which may carry disease germs if they get the chance, and it does not develop of itself the germs of smallpox or scarlet fever, or such like. Even should such germs, shed by a patient or infected person, get into or on ordinary dirt, they do not breed and flourish there.

Many germs do, but not disease germs. Disease germs cannot stand roughing it in or on casual dirt. They are delicate little plants, and require special food, and a special temperature in order to grow, and their requirements are seldom met in nature outside the human (or animal) body. Hence it is that the new public health, although objecting to dirt for its own sake, does not object to it as a cause of disease. It is infected persons, not infected things, that do most of the damage.

True, the germ of some diseases in humans will grow and flourish in animals as well, and vice versa. Glanders in horses is due to a tiny germ or plant which grows in the horse's nose, and often in his lungs: sometimes in his skin, producing then what is called "farcy." This germ of glanders in the horse may grow also in the human; and when a horse, with glanders in the nose, snorts into a man's face, the man may get the germs into his nose or mouth, and so develop glanders himself. Also the same may happen if he gets the discharges from a glandered horse's nose, or from the skin in "farcy," into a cut or scratch.

Fortunately, the human body is not, as a rule, a good breeding ground for this little germ or plant that causes glanders in the horse. Because of this, most of the glanders germs that enter human bodies from glandered horses die out, and no harm follows. But every now and then some man caring for glandered horses, and getting the germs from them, develops glanders himself; and almost always dies, within a week or two.

We know that the same sort of thing is true of the germ of cattle tubercu losis. This germ, when it reaches humans, often fails to grow, especially if the person who receives it is over sixteen years old. When it reaches children, however, it finds them better soil, and about one-fourth of the children who die of tuberculosis owe their deaths to the germs they received from cattle, through milk from tuberculous cows, and from the manure of tuberculous cows, when, as almost always happens, manure gets into milk.

Tetanus (lockjaw) is also due to a germ-a germ which finds its chief breeding ground in the intestine of some horses, and sometimes in cows. This germ does no harm in the intestine, but if horse manure, etc., containing it, enters a wound, especially a deep, narrow wound, like a puncture from a nail, the germ may develop in the body and produce lockjaw. Beth man and animals may contract lockjaw thus. Hence the danger of soil-contaminated wounds, when the soil is well manured, especially with horse manure.

"Cleanliness is next to Godliness." True, and the New Public Health ardently advocates both cleanliness and Godliness. But neither cleanliness nor Godliness will prevent a child, exposed to measles, say, from catching it. The child of the archbishop and the child of the burglar are alike in this-dirty or clean, Godly or un-Godly, neither can suffer an infectious disease unless the germs enter the body-and both have Very promptly and scernfully he equal chances to develop the disease, if

would remove those smelly things to the germs do enter. To prevent dissome safe place for burial or burning, ease, cleanliness helps, but only if the and go home, conscious of a public duty cleanliness includes exclusion of the

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Misses and

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Coat,



Order by number, giving age or measurement, as required, and allowing at least ten days to receive pattern. Price ten cents PER NUMBER. If two numbers appear for the one suit, one for coat, the other for skirt, twenty cents must be sent. Address Fashion Department, "The Farmer's Advocate and Home Magazine," London, Ont.

# The Beaver Circle.

#### Our Senior Beavers.

Dear Beavers,-Some time ago we read an account of a new society for boys, called the "Boys' Own Society," organized at New Liskeard, and at Laurel, Ont.; by this time, no doubt, it has made its appearance in several other places.

The story was so interesting, and the Society seemed to promise so much pleasure and profit for the boys, that we wrote to the organizer, Rev. A. W. Hone, 615 Church street, Toronto, for further particulars.

He has very kindly written to us at some length, and so we are able now to tell you something worth while about this interesting "B. O. S."

The object of the Boys' Own Society, Mr. Hone tells us, is to "promote the moral, intellectual, social, and physical welfare of its members'-which simply means, as most of you will understand, that it aims to make boys better, brighter, stronger, more manly, more capable, and to give them a jolly good time besides.

It takes in poys from all churches, and a very small fee (at New Liskeard, and, no doubt, at other places, this is but five cents a month) is charged to cover running expenses.

All the boys who join sign a pledge, which is as follows: "I promise, God being my Helper, to keep secret the signs, passwords, and ritual of the Boys' Own Society. I will endeavor to furthat the welfare of the Society and its members, by doing the work I may be called upon to do, and by treating my fellow-members as brothers. I do not approve of drinking, gambling, smoking, nor of impurity of speech or action, and will strive at all times to honor my parents, my country, and my God."

All this, you may imagine, is very much upon the lines of a grown-up folk's society, and you may think it still more so when you know that there are passwords, changed after every meeting, in connection with the "B. O. S." If you wanted to go to a meeting, you see, you could not get in unless you knew the password. It was not much wonder-was it?-that one little fellow who joined was heard to we've got a lodge now, and it's just like the Masons, too!"

Great stress is placed upon the motto, "Clean Boyhood, Strong Manhood," and seats are reserved for the members of the "B. O. S." in the various churches. Each meeting is opened by repeating

part of the ritual, which is not here given, and singing the Society song, "Marching to Manhood." The closing exercises include repeating a prayer, and

giving the fraternal yell.
Oh. yes, there is a "yell,"—and you know how boys like yells. Here are two

"B. O. S.! B. O. S.! We are the boys of the B. O. S.! Sturdy and strong ! Sturdy and strong ! We'll stick to the right and smash the wrong !"

"Who are we? Can you guess? We are the boys of the B. O. S.! Are we in it? I should smile !-We are in it all the while !" There is also a Society pin.

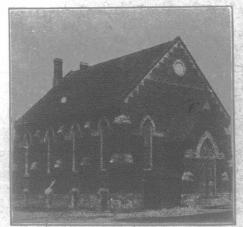
Now, for the other side:-The boys meet frequently for good-time and goodwork meetings. At these there are usually a programme and a debate, the subjects for the latter, in a rural district, being often those of especial interest to the farmer. Here are some of

the subjects that have been given: "Resolved, that wood has been of more use to the world than iron." (A subject, you see, that must lead any boy to take an interest in the protection and development of the wood-lot.)

"The best method of preparing ground and sowing wheat."

once in a while, an open meeting is given, to which the ladies of the neigh- corn from spoiling. borhood bring cakes and pies.

The officers of the Society are, of course, with the exception of the Honorary President and the Superintendent, all boys. They are - President; Vice-President; Secretary; Treasurer; Guard, who "minds" the door, admitting onl those giving the password; and organist. These are elected by nomination and ballot. Two ushers are also appointed monthly to take care of the room and keep order.



Church at Laurel, Ont. Which has a "B. O. S." in connection with it.

The colors for the Society are blue and white, and the members are supposed to salute one another with the fraternal sign when they meet.

Now, I wonder if you are interested enough in this "B. O. S." to want to have one in your own neighborhood? If so, try to get your parents or your school-teacher or clergyman (all, if possible) interested in the matter, and ask them to write, for all further particulars, to the director of the movement, Rev. A. W. Hone, 615 Church street, Toronto. Mr. Hone says he cannot reply to each letter personally, but that he will prepare an article, to be published in our pages, covering any questions that may be asked.

A BOY'S IDEAS ABOUT SILAGE. Reading the letters about silage and silo-filling, I noticed that one man says cattle do not do as well on the grass after having been fed on silage during

Spelling matches are also held, and, when put in the silo, it needs water put on it from time to time to keep the

C. W. HISEY (age 10). Langman P. O., Ont.

#### Senior Beavers' Letter Box

Dear Puck,-I intended to write as soon as I received my prizes, but something prevented me from doing so.

Thank you very much for giving me those prizes. It seemed as if the prize was too much for just making the doll's dress. "The Strike at Shanes," which is the name of the book I received, was a very nice one indeed, just the kind of book I like to read. I like reading about dumb animals best of all books, except one. The other one was also a very nice book. It was nicely bound, and is a very nice story. The morning I got them I could hardly wait until I got to the house, I was so glad. All the school-girls say they are going to try for one next time.

I had not expected getting any prize, and when I saw my story printed I was overloyed.

We are going to move shortly to another place, and the other day the school-girls gave me a black-velvet purse. I am very proud, indeed, of it, as proud as of my books. I am going to keep all my books and have a library. Don't you think that will be nice. Puck?

Well, I think I must soon close, or you will be saying, "I wonder if she ever will stop writing this trash," and into the w.-p. b. goes my letter, but, however, I hope that this will not be true. So, bye-bye to all, wishing the Beaver Circle every success.

WINNIFRED M. BAKER.

(Age 12, Sr. IV.).

R. R. No. 1, Southwold, Ont. P. S.-How many new subscribers does one need to have in order to obtain a flower and bird guide, as I see many birds that I do not know the name of, and would like to know. Hope you will please tell me.

. . . . .

For two new subscribers, at \$1.50 a year each, we will send you a beautiful large bird book, filled with beautifullycolored illustrations. I hope you will be successful in winning one of these books, Winnifred. They are really fine. Yes, I think you are very wise in beginning to collect a library now. will find making a collection of books



Part of Laurel "B. O. S."

isfaction, that they do better. We fed kind of books you admit to it. four cows and two young cattle on siluge during the winter, then we turned them out on the grass early in the spring, and in a few weeks' time the two young cattle were fit for beef. The cows did well, too; in fact, we never before had cows to do as well. They all milked well, and were in good condition. One writer said that corn should have no frost, but if a man wants his silage to keep well, he should let it get a little frost. When it is cut and left out a while, the juice dries up, and the silage does not smell. But when it is just cut and put in the silo, the corn like it as well. If the corn is dry "in our bare feet" he used to bite our

the wister, but I have proved, to my sat- delightful, but be very careful about the

Dear Puck and Beavers,-I am going to tell you about a pet coon I used to have. One day my father was working near the railroad, and he saw something run along the track, so he went over to see what it was, and it was three coons, one big one and two little ones. He caught the two little ones, but the big one got away. He brought them home, but he had to be careful or else they would bite him. When he got home we put them in the barn, and the next morning one of them was gone; we could not find it anywhere. We called the just cut and put in the silo, the corn other one Johnny. He got to be a nice has a sour taste and the cows do not little thing. When Dora and I went



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toes, and we used to play with him. jolly things. Please tell me if I am a Well, I guess I will close with two Junior or Senior Beaver. riddles.

Black within, red without, four corners, round about? Ans,-A chimney. What is black and white, and read all over? Ans.-A newspaper.

EDIE MAGRIDGE. Auburn, Ont.

Dear Puck and Beavers,-I thought I would like to write a story. We have taken "The Farmer's Advocate" for a short time, and I like to read the letters in it. They are very nice.

Well, I once had a dog, and his name was Tray, and he had four different colors. His four feet were yellow and white, his body gray, and he had a black spot on his back. He had a white ring around his neck, and a grayand-white tail. On one foot he had five toe-nails. I guess I will tell you about his tricks. He would sit on a chair; if he was cold, he would get on a chair and put his two front feet on the stove hearth, and hold his head over the stove to get warm; he would ait in the buggy and go for a ride; he would get a rag in his mouth and run around the yard: he would chase me around a chair; he would get in my hand-sleigh and coast down a hill with me.

Tray used to play with a kitten whose name was Dandy Jim. He was a good cattle dog. I liked him very ISABEL TRIMBLE. Drumbo, Ont. (Age 12, Bk. III.).

Dear Puck and Beavers,-I have never written before. I go to school, and have a mile to walk. I like our teacher fine. My pets are a little kitten, a calf, and a dog. The kitten will sit on your knee and play with your fingers. When the calf sees you coming he will run. I live on a farm four and a half miles from the city of Brantford. My father takes "The Farmer's Advocate." and could not do without it very well. Our farm has one hundred and twentyseven acres. I will have to close. Hope this will escape the w.-p. b., so good-ADA WILLIAMS. bye.

(Age 9, Bk. Sr. III.). Brantford, Ont.

Dear Puck and Beavers,-I have written you four or five times before, and

will venture to write again. Where I am sitting, I am looking at the South Mountain in the fruitful valley of Annapolis.

I love to live in this country, for in the spring there are the gardens to plant, the brooks are flooded, and you can make a raft or go out in a boat and catch fish and sail your little hoats

in the ditches. Next comes summer, when you can play ball and go on picnics. In vaca-that no injustice existed, or, if it did,

CLARENCE FITZ RANDOLPH.

(Age 11, Book VI.). Bridgetown, N. S.

I scarcely know which you are, a Senior or a Junior Beaver, Clarence. The classes are graded differently in Nova Scotia and Ontario Schools. However, judging from the quality of your letter, I have put you with the Seniors.



I Spy.

#### Beaver Circle Notes.

Some of the letters that arrived in November must still be held over,-there were so very many, you see.

Edna Farrier, Campbellton, N. B., would like if some of the Senior Beaver girls would write to her.

Will Howard Dixie please write againa longer letter. Also Willie Avery, Stayner, Ont.

# The Mending Basket

SHERARD MCLEAY HAS A WORD MORE.

I don't suppose there is, in this whole universe, one unjust law or action which, if held up to the public gaze, would not at once win to itself numbers of supporters-people who would declare



A Perilous Path.

tion you can help in the hay-fields, go existed to such a very slight degree as

Next comes fall, when the men cut their grain and take it to the threshing is it given to view the same situation the South, and you can go hunting of another's argument. partridges that stay with us.

all. I can go to the woods, and I one long holiday, as too many appear down the mountain coming home.

There is fun getting the Christmastree, and hanging up your stocking clude the lives of every single farmer in Christmas eve, also buying presents for

swimming, go camping, and go "in your to be of no consequence-simply because they had seen or felt none of its effects. Hardly to any two people, of course,

mill to be threshed. Then come picking in exactly the same light. However, the apples, picking up potatoes, and get- we can all treat each other's views with ting ready for winter. The birds fly to courtesy, and be ready to admit the good

Because I have tried to show that the Next comes winter, the best season of life of the average farmer's wife is not often take my sled with me, and coast to think, I seem to have brought on myself the wrath of some of the farmers.

I did not intend that picture to inthe Dominion. I know quite well that your companions, and lots of other there are many cultured homes in the

1866

H. VI.).

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N. B., Beaver

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in the



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T. EATON COMITED CANADA

exist. Nevertheless, that picture was a the work is for your own ultimate good. ate a little more the help women so more suggestive of loyalty than of any country in which these conditions do not you can do when you have to, or when

to do it. It is simply wonderful what hold. Let me repeat that message from never-ending reutine.

impossibility, is an ordinary fact.

Nothing is an impossibility when work is to be done, and you are the only one is to be done, and you are the only one in the day's work of the average house.

In others, and far from neing an impossibility, is an ordinary fact.

In others, and far from neing an lacking in appreciation of all the nerve-lacking in appreciation o

if men would only apprecitrue representation of many farmers' These women do not own "prize mean cheerfully give them, at the same time thing else, and, while loyalty of each to wives, taken from the actual experience men," either. (I do not think the name leaving their own duties to accumulate, his occupation is to be commended, it of women I have known in this locality and in others, and far from being an impossibilities of all the next of such faults in others.

There are at least two reasons why this

Some of the recent letters have been



# Big Ben-Two Good Alarms in One

Take your choice in Big Ben. He rings either way you wish - five straight minutes or every other half minute for all of ten minutes unless you switch him off. He's two alarms

If you're a light sleeper, turn on the half minute taps before you go to bed. If you sleep heavily, set the five minute call. You can slumber then without the get-up worry on your mind.

When morning comes, and it's announced by Hig Ben's jolly bell, you can't help getting up at once, for Big Ben never fails to get you wide awake.

Big Ben is really three good clocks in one, two excellent alarms and a fine time-keeper to keep in any room and tell time all day by.

If you have got to get up bright and early, if you have to get your help in the field on time, ask for Big Ben at your dealer's and try him for a week. You'll never want to be without him afterwards.

Big Ben stands seven inches tall. He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves.

He rings five minutes steadily or ten intermit-tently. If he is oiled every other year, there is no telling how long he will last.

He's sold by 6,000 Canadian dealers. His price is \$3.00 anywhere. If you can't find him at your dealer's, a money order mailed to Westclax La Salle, Illinois, will send him anywhere you say duty charges prepaid.



Some of the most imposing residences in our large cities are decorated throughout with METALLIC Libraries, Dining-rooms and Kitchens. It is an artistic yet fire-proof decoration, and will save you money by reducing your insurance rates.

If building a new home. METALLIC should be put on without hesitation as you will save the cost of lath, plaster and paper, besides having a cheaper yet fire-proof and vermin-proof interior.

Or you can apply them to old rooms over the plaster. Then they are so easy to keep cleansimply wipe them with a damp cloth now and again and they look as good as when first put on. When you want to change the color designs simply tint them over with the desired change. Try METALLIC in your kitchen or bath-room, this is where its qualities are put to the severest

METALLIC is very artistic-hundreds of varied designs to select from-heavy beam effects, fancy scroll and panel patterns made to suit every room. We shall be pleased to quote you if you tell us the size and shape of your ceilings or walls.

Agents Wanted in Some Localities.

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TORONTO and WINNIPEG

should be true. ters do not care to hire out; but in such cases where they do, they usually Twenty-one years ago, John and I were go to the city where work is pleasanter married. I was a delicate young city and remuneration higher. Another reason is that farmers can not afford to farmers every year are doing without a What, with taxes, interest. hired man and ordinary repairs to keep up, the average farmer finds himself hard put to pay his own year's work.

It is in such homes as these that absolute co-operation is needed. Each doing his share diligently, and each perfectly willing to help the other. If it does not make a woman unwomanly to help her husband, why should it make a man unmanly to help his wife?

Do not make too light of housework. I think, perhaps, some of our strongest men might bend beneath its burden. Not to all of us. of course, is work

so heavy given. I am speaking of the many who, lacking in worldly gear, are making up in bodily strength.

I am glad that so many of "The Farmer's Advocate" readers are in such happy circumstances. You do well to rejoice, but, while rejoicing, please don't forget that there are other women for whom the lines have not fallen in such pleasant places. Give them a helpinghand when possible. Tell them how you have made some rough places smooth; not all of us have the ability for those little inventions which help so. Believe me, such help as you may give thus, will be of great value to many a hardworking farmer's wife.

IS MARRIAGE A FAILURE?

I've been reading with much interest the discussions about "Is Marriage a Failure''? "What is Woman's Work on a

Most farmers' daugh- Farm," etc., and thought perhaps my own experience might benefit someone. girl, knew nothing of housekeeping, cooking, or any kind of work. I was an pay the wages girls are asking. In- Institute graduate, and for five years I deed, for the same reason, more had been bookkeeper in a large office in the city. My husband had ready for me, and we went to househome all keeping, and such a time as I had ! But I was determined to learn, and John thought me the smartest ever, and his kind words of praise helped to spur me on, and in the end I succeeded.

All this happened twenty years ago. We lived in the town and city until eight years ago, when the doctor told me there was no hope for my husband's life unless he was out in the air all the time, and advised farm life. In a month we were out on the farm we are now on. For seven years we fought death back, but a year ago Death conquered, and now I am alone with my two lovely children, a boy sixteen and girl of five.

Before I came to the farm I thought it awful if women had to milk. Since then I've milked as many as ten cows at a time, fed the pigs, watered the cattle, and got the stable ready for his horses. Did I think it slavery? No. I was proud to think that now he was the weak one, I was strong and able to wait on him. Never fear, true love is never afraid of doing too much, or more than its share. I've worked indoors and out, driven a team on the disk harrow, roller and rake, hoed both beans and corn, helped harvest beans,-in fact, everything a man can do, except plow-I never tried that-often working late at night at my housework in order to be able to help outside the next day. He always had the choicest meals that could

be got, and every care that could be mitted anyone to leave my door without given him. Am I sorry I worked so asking them to put in their horse and for the other-not "your work and my work," but "our" work. Now, farmers' wives, if your good man is late getting home, feed and water the stock, put in hay for his horses, etc., and see how much he will appreciate your thoughtfulness. Then, some time when you come home late, in a hurry to get supper. you'll find him in the house smiling, the fire on, and the kettle boiling, and maybe (if he is real smart), the table set. Then you will know how he felt when you had his barn chores done. I cannot understand the slavery business. I've tried my hand at almost everything, from training a demon of a Thoroughbred colt to hatching chickens by the hundreds in incubators, but I've never had a man try to wipe his feet on me yet. What I believe in is, try to make your home the sweetest place on earth to your own—yes, and the stranger within your gates, also. I remember of some years ago going on a trip. I was mistaken in the distance. I had carried a heavy baby in my arms for four hours. My baby, myself, and my horse, were indeed weary. It was after the moon hour, and, as the people were strangers, I would not think of asking for my dinmer. The farmer came out, helped me out of the buggy, and said, "You look tired and weary. right in. My wife will get you a cup of tea, and I'll look after your horse." Do you know, I've received many beautiful presents in my life, but I never felt as grateful for them as I did for that farmer's kindness. I've never since per-

hurd? No, a thousand times, no! have their dinner or tea. Husbands, be Could I but have him again, I would courteous to your wives. When you come willingly go out on the road, without a in from the field, tired and hot, and dollar, and work for us all. That is your wife has a fine dinner for you, love—not what your husband or your thank her for it, and let her know you I get them all their meals as usual, but no one now says, "Marmie, those are dandy biscuits. one can come up to mother making bis-Or, "Mother, that apple pie tastes like more," or a pat on the arm as he went out to work, "Don't work too hard, mother, there are other days coming." Life is so short at the best. Let us all try to make everyone just as happy as we possibly can, and thus fulfil our Saviour's words, Be ye kind to one another. "DUSKIE."

Duskie, you have sent us the best patch yet received. Very many thanks. You cannot tell how many this little history of your experience may help.

# The Ingle Nook

[Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and ad-dress with communications. If pen-name is also given, the realdress with communications. If pen-name is assegiven, the real name will not be published.

(3) When enclosing a letter to be torwarded to anyone, place it in stamped envelope ready to be sent on. (4) Allow one month in this department for answers to questions to appear.]

# The High Cost of Living.

If the subjects treated in magazines are any index in regard to what people as a whole are thinking about, it is only necessary to pick up a dozen papers and journals at random to conclude that the question of the present high cost of living is, to-day, one of pressing, even

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stances, find it increasingly difficult to well-polished shoes. make more than enough to keep body and soul together, while, at the same dition of a bit of new material, may be resitime, as anyone with eyes in his head orafew who have managed to get the ends LIC of wires of one sort or another into their hands go on amassing wealth with and an amazing rapidity. There is something queer and crooked about it all somewhere. This earth is productive yet enough to keep everyone who is willing save to work, in comfort, and yet there never was a time when there were more disintressingly poor on the one hand, and more luxuriously rich on the other. I suppose it will always be so, so long as there exists an appreciable proportion of d be

people who are gigantically selfish, for, you know, the theory held by Tolstoi and others who have examined deeply into the question is that every dollar spent in useless luxury by a man or woman who refuses to do useful work of any kind-a parasite-means just so much less to someone who needs it for the nec ssities of life.

I don't suppose that any one who reads this is grindingly poor, yet, under present conditions, there are few who do not feel, more or less, the pinch of high prices. I hear much about them here in the city, from people who, apparently, lack but little, and I know from experience that, during the nine years which I have spent in this place, prices in nearly everything have gone up forty per cent. Salaries, as a rule, have not gone up in proportion, and so it is little wonder that people grumble. They have to keep "respectable" in appearance, yet they do not want to spend all they make for food and clothing. They have other and quite healthy ambitionsthe wish to own, eventually, homes of their own, the hope of laying by enough to secure an independent old age.

Well, we can only hope that things will be worked out (and that right speedily) for the good of the greatest number. "Privilege" for the few at the expense of the many should have no place in a civilized land, and perhaps the pers stent work of the little knot of good men and true-may their number be increased-who are steadily fighting this evil, may accomplish results sooner than we expect.

are, the question is: What can we do with what we have to make a little money stretch over the most ground possible?-and really much may be accomplished along this line by the wise expenditure of thought as well as money.

To deal with the clothing question first: When buying clothes, as many wise women have found out, be very careful in the selection of material. Choose something that will look well, wear well, and that is so quiet in color that you will not tire of it quickly. It usually pays to buy a "good" piece. Cheap material soon looks shabby, and realize the food - value of well - cooked is seldom available for making over, beans, oatmeal, and corn meal, and will hence, though the good piece may cost give these a frequent place, cooked in more to begin with, it proves to be the various ways, on the bill of fare. She most economical in the end.

made, with simple, graceful lines, and a dings, panca es, and bread-sauce; odds minimum of trimming; it is the "lines," not the trimming, that count in the ap- ads, or meat-pies; and bits of porridge pearance of any dress or suit. Many for muffins or "fried porridge." of the city women are now making eggs are sky-high, she must learn to practically all of their own clothes, make cakes and desserts that do not resuits and all, and really, unless enlight-ened, one would not "know it." Of course, they buy good patterns, and take fare, with something approaching them care to choose those that are simple in nutritive value, though less in cost. enough to be easily managed; then they take infinite care in cutting, fitting, basting and pressing. Two women frying it out and clarifying it, and she whom I know, who have no one about must teach the family to be economical to help with the fitting, have bought in the use of food. Children, for inadjustable fitting forms, and find them stance, should never be permitted to very satisfactory.

It the matter of hats and gloves, economy may be exercised by choosing those that will "go with" every suit or dress harmoniously, while there is real economy in possessing dainty collars.

Writer after Even an old and rather shabby dress writer has attempted to probe the may be transformed by a bit of immacu"cause," and, no doubt, many of them lately white neckwear, with cuffs to have touched it, or the combination match, while an old suit may give the producing it, closely, yet conditions do effect of a new one if helped out by a not improve; prices remain sky-high, peo- dainty malines bow or crocheted jabot, ple in poor or even moderate circum- a veil for the hat, good gloves, and

Often, too, the old dress, with the adturned and made over into one new in must be able to see, the comparative line and effect, while old skirts may be metamorphosed into very good underskirts, and all underclothes given a double and treble lease of life by judicious patching. Hats, too, may be made over. Indeed, a milliner said to me once, "Never throw away an old hat until you see if anything can be done with it." Surprising transformations can be wrought by blocking and staining, nowadays, while velvets may be steamed, ribbons cleaned or re-dyed, and flowers touched up with tube paint and turpentine, in short, new trimmings produced from old.

#### ECONOMY IN COOKERY.

Coming to the table, one must needs pause, realizing the truth of the parody,

" High diddle, diddle, The cook has a riddle, With prices as high as the moon : When her purse keeps small And hungry folks all Still eat at night, morning, and noon."

The very worst solution, however, is to cut down the food so much as to eliminate anything that is nourishing. That is no economy at all, for the family must be kept healthy and able for work, and it is better to spend money on food than on doctor-bills.

The problem, then, is to learn how to have the food as nourishing and as appetizing on less money.

Meats afford a ready answer to this question, so far as they go, for the cheapest cuts contain quite as much nutriment as the dearer ones; they only require different cooking to make them as appetizing. Cheap scraps, and all odds and ends of left-overs, for instance, may be put through a meat-chopper (it is a great economy to own a little meatchopper), and made into croquettes, hash, or meat-pie; other cheap pieces may be transformed, by slow cooking. into appetizing stews; the cheaper roasts may be made delicious by pot-roasting. while round steak may be induced to become just as appetizing as porterhouse by searing it, adding a little water, and cooking slowly and steadily in a covered pan for three hours. Never make In the meantime, with prices as they soup from a good piece of boiling beef, as the beef will be left tasteless, and comparatively useless as food; use soupbones for the soup, putting them in the water when it is cold, so that every bit of nutriment may be extracted. Boiling be I should be plunged into boiling water and boiled for about two minutes to harden the outside so that the juices will be retained, then simmered until done. The water that is left will not be very rich, but may be saved for making soup with the addition of cracked soup-bones.

The housekeeper who wishes to economize in the right way must learn to must learn to use every scrap of left-Next have the material chosen well overs, using old bread for stuffings, Pudand ends of vegetables, mixed, for salquire them, but must supply their place, as important constituents of the daily

She must also learn to save every scrap of left-over fat for shortening crumble up food and waste it just for amusement, and they should be taught that when eating bacon and bacon-gravy, or any other rich gravy, butter is not required.

Economize, then, but keep up a well-

# DANCE FOLIOS

THE GEM DANCE FOLIO FOR 1913 THE STAR DANCE FOLIO NO. 12 Arranged from the Season's Most Popular Successes ONTENTS

Mediey, Schottische—How Do you De, Miss Rartime: Sally Mediey, Bard Dance—Billy's Melody; Dat Lovin Touch.

Touch.
Touch.
Touch.

Selley, Waits—Somehow, Sometime, Somepiace:
There a Little Gir That's Lonesome, (In My Old Kentucky Home).

Medley, Two-Step—I'll Never Have Another Par Like Mary Mine: Seren's Hat.

Medley, Gavotte—I' rtime Nick) Every Moment You're Lonesome, I'm Lonesome Too;

Medley, Waits—If All the Giris in All This World Ward Just as Nice as You; Come Love and Flay Feak-shoo.

boo.

Medley, Waits—When a Cirl Whose Heart is Breaking
Loves a Boy-Who Doss Not Care; Just For You
Sweeheart.

Medley, Polks—Oriental Ross; My Heart Keeps Right
on Beating,
Lancers of the Hest Numbers

#### THE SAM FOX STANDARD DANCE FOLIO FOR PIANO

Publishers Price 15c., Our Price Postpatd 45c. introductive National and typical aim of America, England, Ireland, Scotland, Germany, France, Italy, Japan, etc., also Original Indian. Cuban and other Melodies.

other Meiodies

Popular America, Grand March—Assembly; Hall
Columbia: My Maxyland; Red, White and Blue;
Star Spansied Banner.

Thannock, Two-step—The harp That Once Thro'
Tara's Hall: Killarusy; Come Back to Erin; Pretty
Maid Milking Her Cow: Wearing of the Green.
Beauting Common Charlie Is My Darting; The
Keel Row; Highland Fring; Therw's N's Luck
About the House; Annie Laurie.

Beauting Venice, Walties—The Royal March, (National Air of Italy); Il Trovatore; Rigoletto
Traviata; Ciribiri-bin
Colonial Days, Three-step—My Lady's Bower; Minuet;

Publishers Price 750., Our Price Postpald 450. Publishers Price 750., Our Price Postpald 450. Arranged from the season's Successes for Plano Solos as TWO-STEPS, WALTERS, THREE-STEPS BARN DANCES, LANCIERS, MARCHES, es.

Walta—Good-Bye Rose.

Medley, Barn Dance—The Gaby Gilds, Let Me Be the First One Dearle.

Medley Two-Step—Pollywogg Wigste. My Sumurun Girt

Medley, Two-Step—That Babboon Baby Dames.
Pollywogg Wigste.

Medley, Two-Step—My Sumurun Girt. Way Down on Sunny Tampa Bay.

Medley, Two-Step—My Sumurun Girt. Way Down on Bunny Tampa Bay.

Medley, Walta—A Little Bit of Irish, You May be Irish, Murphy, But I Thinh That You're in Dutch.

Medley, Two-Step—Make Me Love You Like I Never Loved, Before: Pve Got a Bagtime Bee in My Bonnet.

Medley, Walta—Come Baok. Marguerite: Tell Medicley, Walta—The Garden of Allah: Tve Got a Cirl From My Home Town.

Medley, Walta—The Garden of Allah: I've Got a Cirl From My Home Town.

Medley, Walta—The Garden of Allah: I've Got a Cirl From My Home Town.

Medley, Walta—The Garden of Allah: I've Got a Cirl From My Home Town.

Medley, Walta—Roll Me Around Like a Hoop, My Dear: Carmia.

Medley, Schottische—How Do you De, Mim Ragtime: Sally

Medley, Sara Dance—Billy's Melody; Dat Lovin Strong Side Two-Step.

Solon as TWO-STEPS, LANCIERS, LANCIERS, MARCHES, eco.

Two-steps

Baby Boy. Sand Came Baok, The Come With Me to the Bungslow. Creatore. Daddy.

Do It Now.

Two-steps

Baby Boy. Sand Came Baok, The Come With Me to the Bungslow.

Creatore. Daddy.

Do It Now.

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Do It Now.

Two-steps

Baby Boy. Sand Came Baok, The Come With Me to the Bungslow.

Creatore. Daddy.

Do It Now.

Two Talk My Your Step.

Two Talk My Your Steps.

Two Talk My Your

Come on Get Busy and Cap Your Bands Hand In Hand. the Carden of Roses Should and of Roses and Love, The Inside of Robest and Love, The Little Boy Blue.
Month of June is a Song of Love. The Somebody Else Will II You Don't.
Under the Love True.
Wedding Trip, 'The.
When the Dow is on the Rose.'

By the Light of the Junale Moon.

I Like Your Aprox and Your Heanes and Your Links Qualter Gover.

Maybe That is Why I'm Lonety.

Moonlight Bay.

There's a Ring Around the Moon.

Trolley Car Swing. The.

Remich's Operatic Lanciers. Rigoletto, Three Sten

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dishers Price 750., Our Price Postpaid ....

Beautiful Venice. Waitses—The Royal March, (National Air of Italy): Il Trovatore,; Rigoletto Travitata; Ciribit-bin Colenia Days, Three-step—My Lady's Bower; Minue;; Love's Old Sweet Song.

Gay Pare, Two-step—La Sorella; Petite Tonkinoise; March of the Little Piercots; Orpheas.

Grand Daddy, Barn Dance or Schottische—Old Folks at Hume; Abraham's Daughter: Ruben, Ruben, Dancing in the Barn; Old Zip Coon.

Milan Whoop, Two-step—Original indian Metodies.

Dancing in the Barn; Old Zip Coon.

Milan Whoop, Two-step—Original indian Metodies.

Dancing in the Barn; Old Zip Coon.

Matthe—I'm Falling in Love 5th Sommen. From "Around the World" 1912 Hippodrum From the Humanum.

From Around the World" 1912 Hippodrum.

From Around the World" 1912 Hippodrum.

From Coulon.

Waits—I'm Falling in Love 5th Sommen. From Manchy Marietta.

Two-step—Driving Home the Cowe From The Red Widow."

Two-step—Art in Calling Me. (I Want to be Frime Donna), from "The Emmanum."

Barn Dance—Raby Ross.

Waits—Original Metodies.

From Seep Away From a Married Man. From The Opaker Git."

Waits—Original Metodies.

The Grenadiers; Two-Step Patrol—The Brittan Grenadiers; Sally in our Aley; Cheary Ripe; Rule Britannia

Bome Waits—Good-Night Ladies, Auid Lang Syne; Old Oaken Bucket; Swanes River; Home Sweet, Home.

Waits—The Clin Til Call My Sweethmare, Muss Loss.

Waits—The Clin Til Call My Sweethmare, Muss Loss.

Handlers—The Campus.

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HAVING SOLD HIS FARM, MR. FRED A. BOGART, KETTLEBY, ONT., WILL ON FRIDAY, FEBRUARY, 14th.,

dispose of his entire herd of Scotch Shorthorns, 10 Females and 5 Buils, including his famous stock bull (Scottie) 82406 and 4 young bulls of his get. The offering will be high class in breeding, in individuality and condition. Many show things are among them and big milking cows. Conveyances will meet morning trains north and south by G. T. R. at New Market and at Kettleby on Aurora and Schomberg R. R. on morning of sale. Terms, eight months credit on bankable paper, and 5 per cent discount per annum for cash. Saigeon and McEwen, Auctioneers Fred A. Bogart, Kettleby, Ont.

Please Mention The Advocate



Dainty, Disappearing Doughnuts. Devoured near as fast as you make 'em.

Golden - tooth - teasing - able - bodied nuts of dough.

Made from dough that Tastes Like Nuts, you know.

Use FIVE ROSES flour.

Get that Individual toothsomeness of Manitoba wheat kernels.

Doughnuts with a Palate-Pleasing Personality. See 'em bob up in the rich deep fat-swelling, softtextured.

A hole entirely circled with Light Digestible Food. Fat without being fat-for FIVE ROSES in the sturdy glutinous flour that resists fat absorption. Just enough to brown deliciously, to crisp quickly.

No greasiness, heaviness, sogginess. Filling a vacant place se pleasantly with pover an outraged stomach.

Like these make YOURS. Use FIVE ROSES.

# Not Bleached Not Blended

While They Work Without Leaving a Scar or Loss of Hair.

The Only Spavin Remedy in the World Sold Under a \$1000 Bond.

FOR SPAVIN, RINGBONE, THOROUGHDIN CURB. CAPPED HOCK, SHOE BOIL, SPRUNG KNEE, LACERATED AND RUPTURED TEN-DONS, SWEENY, ETC., it is unaurpassed, fre-quently imitated, but not equalled.

OUR FAITH is such that we can afford to GUARANTEE MACK'S THOUSAND DOLLAR SPAVIN REMEDY and furnish with every bottle a \$1000 WARRANTY BOND, which insures to you the return of your money if the results from its use are not entirely satisfactory, and if it does not overcome all forms of lameness, from whatever cause.

whatever cause.

Your Remedy Is a Wonder

Milwaukee, Wis., Mar. 21, 1912.

McKallor Drag Co., Binghamton, N. Y.

Dear Sirs:—I wish to advise that I have entirely eured the Ourb on my driver in less than three weeks with your Mack's Theosand Dollar Spavin Remedy. It is all you claim it to be, and is the best remedy I Yours very truly, Wisconsin Lakes Ice & Cartage Co. Per Jos. G. Meyer, Supt.

FREE Veterinary Advice

We have associated with us a Graduate Veterinarian to answer all questions regarding lameness in horses, free of charge.

Hark a cross on picture of horse showing where lameness is located and cut out and mall same to us. You will receive instructions how to cure the trouble. If your druggist can't supply MAKE THEM SOUND If your druggist can't supply Mack's Thousand Dollar Spavin Remedy remit price direct to us and we will send at once, prepaid. \$5.00 per bottle—and worth it. Accept no A-66 ubstitute. Our valuable book, "Horse sense," sent free to any address.

McKALLOR DRUG CO., Binghamton, N. Y. LYMAN BROS. CO., LIMITED, Distributors to Drug Trade, Toronto, Ont.

Mention "The Farmer's Advocate."

body grows weak and susceptible to dis- Turk; Hiawatha. ease if it is starved for want of proper food constituents. It needs protein and men were handed heart-shaped pieces of carlohydrates, and fat - don't be afraid paper and pencils, and required to write of these words-for muscle and heat and proposals in rhyme. In the meantime energy, and these constituents are found the girls were each supplied with a small in meat, eggs, beans, cheese, milk, nuts, handful of beans. When the proposals natmeal, wheat, molasses starchy vere tables, butter, cream, macaroni, sugar, and corn, and wheat meals. It needs also foods for bulk, to carry the waste material through the body, and foods that supply various mineral salts, etc. Such are whole wheat, prunes, celery, cabhage, parsnips, turnips, carrots, heets, onich and all kinds of green vegetables and fruits.

As you will readily conclude, then. from the last statement, one great item in economizing is to have a garden for vegetables and fruit. Every farmer can have one. It only requires a little time, and a little enjoyable labor at which the children can help.

Just one word more; it pays to buy groceries, etc., in large quantities. Buying in little dribs always means paying out at a much higher rate. So much for this time.

JUNIA.

#### Valentine Party Suggesttions.

(For "Ted" and "Blue-Eyes.")

Here is a description of a delightful Valentine Party, which may be of use to you: The invitations were written an pink water-color paper, decorated with red hearts, and stated that each guest must come in costume, and masked. Among the "characters" that appeared, in compliance with this request, were Little Red Riding - hood; Little School Girl; Queen Elizabeth; Juliet; Aunt Samantha; Miss Hibernia; Mary Queen of Scots; Pocahontas; Madame Butterfly Daisy; Romeo; Sir Walter Raleigh; ChiManuarin, Little Boy Blue; Wizard;

On the arrival of the guests, the young (most of them were very ridiculous), they were collected and read aloud, the girls bidding on each, in

turn, as far as their beans would allow. The crowd then mingled together, each trying to identify the characters represented by others, and a heart-shaped box of bonbons was given as a prize to the one who succeeded in guessing the greatest number of characters. Name and name of character had to be written.

No one unmasked until supper-time. I forgot to mention, by the way, that all of the masks were made of black velvet, with holes for the eyes. No ridiculous and vulgar false faces appeared.

The supper tables were, of course, decorated with pink flowers and candles with pink shades, and the cloth was sprinkled with tiny red - paper hearts, which may be bought for such purposes, these hearts afterwards being pasted by the girls on their faces "patch-wise," and on their dresses. At each place was a pink place-card, and a Valentine, which was read aloud by the recipient before the supper started. There were also menu cards upon which appeared such items as "Love Bouillon" (a milk soup tinted pink with beet-juice); "Heart-(sandwiches); "Sweethearts" bre d'' (heart-shaped cakes of "Scotch bread"); "Cupid's Darts" (bombons), etc. The The pink (love's color) idea was also carried out in pink ice cream, and cake with pink icing.

After supper some songs were sung, and the party was closed with "For

SEALING MAPLE SYRUP. Dear Junia,-I have never written to

# A Fortune in Chicks



One Man and His Son Made In One Year With Poultry

You will want to read his letter telling how it was done And best of all any one who will follow the same simple practical rules will be sure to make hig money with poultry. Every on who keeps poultry or who is inhising of starting in this business should have a copy of this ha 112 Page Book--Free

Nothing like it has ever been published before. It is filled from cover to cover with splendid illustrations and bristles with money making—money average facts. You will be interested in the articles by Prot. W. R. Graham of Guelph, Ontario, "Hatching and Rearing" and "The Automatic Henboux, Other subjects discussed are "How to Select Lyers." "Which Breed is Best," "How to Treat Deases. Just think of it—75 of the 112 pages contain no advertising—just helpful information to the greatest authorities on poultry raising. This book will save you a thousand mistakes and make pour profits of the selection of the selec

Write Your Name on a Postal and mail it to us at once We will send the complete best in and postpaid. You will want to know about the new YALLSTATE INCUBATOR with Sand Tray-also the PALLSTATE UNIVERSAL HOVER BROODERS which you make at home and save money All leading arricultural eiges an experiment stations endorse Prairie State incubate because they hatch chick that live Write for free Shift your eggs to us and get highest market prices

Gunn. Langlois & Co., Ltd. Box 116 Montreal, Canada @ Man'f'rs in Canada of the famous Prairie State Incubators.

FOR ONTARIO FARMS Arriving February, March, April. Apply: BOYS' FARMER LEAGUE, war 126. Winona, Ont. Drawar 126.

Shorthorns of both sexes at all times for sale at very reasonable prices ROBERT NICHOL & SONS Hagersville, Ontario.

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SPECIAL CRUISE

AROUND THE WORLD

Empresses of "Russia" and "Asia" (New C.P. R. Pacific Steamships)

The Empress of Russia will leave Liverpool April 1st, calling at Gibraltar, Villefranche and Port Said, proceeding via Sues, Colombo, Singapore, Hong Kong, Shanghai, Nagasaki, Kobe and Yokohama, arriving Vancouver June 7th, 1912.

1913.
Vessel remains 16 days at Hong Kong.
Empress of Asia, will sail from Liverpool
June 18th, particulars of trip will be announced later.
Most direct connection for April 1st sailing
is via "Empress of Britain" from St. John,
N. B., March 21st.

Rate for Entire Cruise, \$639.10 Exclusive of maintenance between arrival time in England and departure of "Empress of Russia," and stop over at Hong Kong. Particulars from Canadian Pacific agents, or write M. G. MURPHY, D.P.A., C.P.R., Toronto.



LL ands of Farms Fruit Farms a specialty. W. B. Calder, Grimsby,

EXPERIENCED Farm hands—married couples; housekeepers; require good positions: Farm Employment. 140 Victoria St., Toronto.

FOR Sale—Farm store and stock, \$4,000. Tele-phone and post office in connection. Station, two sidings centre farm. Louis Garnett, Isbester,

CRUIT FARMS. In the Niagara Peninsula, ten acres orchard, principally peach trees, about half just coming into full bearing, balance one year old; all Crawford and free-stone varieties, soil sindy loam and tile drained. New up-to-date burn which could be used for a temporary dwelling. Bargain at price \$525,00 per acre and is bound to go up in spring. This property close to the fast-growing village of Vineland, G. T. station, canning factory, bank, post office, fine schools, stores, mills, etc. Apply to box 504, Grimsby, Ont.

FARM For sile, one of the best equipped in North Dorchester, about 100 acres, all wire-fenced; 8 acres in wheat; well tiled; bank barns, hog pen and other out buildings nearly new, cement basement stables; silo and windmill: 2 story Milton red pressed-brick house, hard and soft water inside; buildings worth nearly the price asked, \$10,000. D. D. York, Harrietsville, Ont.

POSITION—As farm manager, by experienced man, married, no incumbrance. Highest references. Box F., Farmer's Advocate, London.

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McEwen, Byron, Ont.

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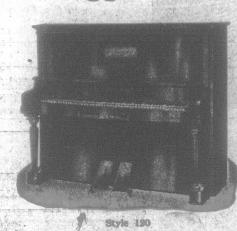
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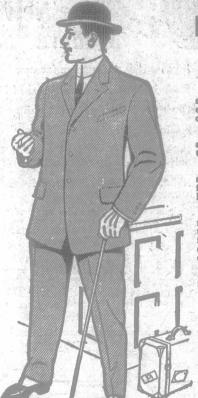
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Dear Junia,-Having received much very valuable information from you, I, like SUBSCRIBER. Nipissing, Ont.

cleaned by washing with soap and water, be thoroughly rinsed, and then placed in London, Ont.)

gasolene to extract the water. This method is commonly used for fresh birds, but in the case of a mounted bird which many others, have come for help. I have a white bird, mounted, and its feathers have got dirty by standing in they would never recover their original dust and smoke. Could you tell me form, and it might be better to wash a how it could be cleaned? Thanking you small portion lightly with scape water. small portion lightly with soapy water, then with clean water, and dry with plaster of Paris. If the method were a The feathers of a bird can be readily success, the remainder of the bird could then be treated. Plain water, followed "Diamond" or "Double Diamond" quilt or, preferably, water only, care being by plaster of Paris, is sufficient to remove pattern, one in which small squares are taken to pass the hand down the grain most discolorations from fresh feathers. placed diagonally around the larger ones. of the feathers and not up. They must (Replied to by Mr. W. E. Saunders,

O FARMS ch, April. Apply: LEAGUE, Winona, Ont.

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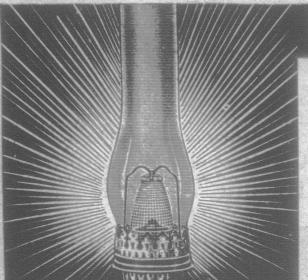
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**AGENTS** 

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BARRED Rocks and White Wyandottes, single birds, pairs, trios or breeding pens; carefully mated Prices low; satisfaction guaranteed. Write for particulars John Pringle, London, Ont. HOICE WHITE WYANDOTTE Cocks, Cockerels, Hens. Pens not related. Rose Comb Reds, Cocks, Cockerels. Satisfaction guaranteed D McTavish, Chesley, Ont.

CHOICE White Wyandotte cockerels \$1.50 each.
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OR SALE—Single-comb White Leghorn cockerels and pullets. Good birds, \$2 a pair and up. Eggs for hatching. R. Hughes, Ideal Poultry Yards, Collingwood, Ont.

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100 acres of good clay loam soil, rolling. Just outside Village of Princeton, Oxford County. 7 acres of fall wheat, 30 acres fall ploughed, 1½ acres bush, balance seeded. A splendid orchard nearly all winter fruit. Good bank barn, silo, hog-pen and driving barn, all nearly new. A good two-storey, red brick house with telephone conections, with 1,200 phones free at \$12.00 per annum. Price \$6,900. Easy terms. Box 18, Princeton, Ont.



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are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Samelo tag. catalogue and prices malled free. Ask for them. Address WILCOX & HARVET MFE. CO...
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#### Rebecca of Sunnybrook Farm.

By Kate Douglas Wiggins.

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XV.

#### The Banquet Lamp

There had been company at the brick house to the bountiful Thanksgiving dinner which had been provided at one o'clock,—the Burnham sisters, who lived between North Riverboro and Shaker Village, and who for more than a quarter of a century had come to pass the holiday with the Sawyers every year. Rebecca sat silent with a book after the dinner dishes were washed, and when it was nearly five asked if she might go to the Simpsons'.

"What do you want to run after those Simpson children for on a Thanksgiving Day?" queried Miss Miranda. "Can't you set still for once and listen to the improving conversation of your elders? You never can let well enough alone, but want to be forever on the move."

"The Simpsons have a new lamp, and Emma Jane and I promised to go up and see it lighted, and make it a kind of a

see it lighted, and make it a kind of a party."

"What under the canopy did they want of a lamp, and where did they get the money to pay for it? If Abner was at home, I should think he'd been swappin' again," said Miss Miranda.

"The children got it as a prize for selling soap," replied Rebecca; "they've been working for a year, and you know I told you that Emma Jane and I helped them the Saturday afternoon you were in Port.

the Saturday afternoon you were in Portland."

"I didn't take notice, I s'pose, for it's the first time I ever heard the lamp mentioned. Well, you can go for an hour, and no more. Remember it's as dark at six as it is at midnight. Would you like to take along some Baldwin apples? What have you got in the pocket of that new dress that makes it sag down so?"

"It's my nuts and raisins from dinner," replied Rebecca, who never succeeded in keeping the most innocent action a secret from her aunt Miranda: "they're just

from her aunt Miranda; "they're just what you gave me on my plate."

"Why didn't you eat them?"
"Because I'd had enough dinner, and I thought if I saved these, it would make the Simpson's party better," stammered Re-

becca, who hated to be scolded and examined before company.

"They were your own, Rebecca," interposed aunt Jane, "and if you chose to save them to give away, it is alright. We ought never to let this day have without ought never to let this day pass without giving our neighbors something to be thankful for, instead of taking all the time to think of our own mercies."

The Burnham sisters nodded approvingly as Rebecca went out, and remarked that they had never seen a child grown and improve so fast in so short a time.

There's plenty of room left for more improvement, as you'd know if she lived in the same house with you," answered Miranda. "She's into every namable thing in the neighborhood, an' not only into it, but generally at the head an' front of it, especially when it's mischief. Of all the foolishness I ever heard of, that lamp beats everything; it's just like those Simpsons, but I didn't suppose the children had brains enough to sell anything.

"One of them must have," said Miss Ellen Burnham, "for the girl that was selling soap at the Ladds' in North Riverboro was described by Adam Ladd as the most remarkable and winning child he ever saw.'

"It must have been Clara Belle, and I should never call her remarkable," answered Miss Miranda. "Has Adam been home again?'

"Yes, he's been staying a few days with his aunt. There's no limit to the money he's making, they say; and he always brings presents for all the neighbors. This time it was a full set of furs for Mrs. Ladd; and to think we can remember the time he was a barefoot boy without two shirts to his back! It is strange he hasn't married, with all his money, and him so fond of children that he always has a pack of them at his heels."

"There's hope for him still, though," said Miss Jane smilingly; "for I don't s'pose he's more than thirty."

"He could get a wife in Riverboro if he was a hundred and thirty," remarked Miss Miranda.

"Adam's aunt says he was so taken

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MERCHANTS PRODUCE CO. Butter Eggs Poultry Honey Beans Apples Potatoes, etc. Our constantly growing trade demands large supplies of choice farm produce. We need yours. Write for weekly market letter. 87 Front St. E., Torosto **BatchHolind** 1880 STHAIP?

#### TRADE TOPICS.

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with the little girl that sold the soap (Clara Belle, did you say her name was?), that he declared he was going to bring her a Christm s present," continued Miss

"Well, there's no accountin' for tastes, exclaimed Miss Miranda. "Clara Belle's got cross-eyes and red hair, but I'd be the last one to grudge her a Christmas present; the more Adam Ladd gives to her the less the town'll have to."

"Isn't there another Simpson girl?" asked Miss Lydia Burnham; "for this one couldn't have been cross-eyed; I remember Mrs. Ladd saying Adam remarked about this child's handsome eyes. He said it was her eyes that made him buy the three hundred cakes. Mrs. Ladd has it stacked up in the shed chamber."

"Three hundred cakes!" ejaculated Miranda. "Well, there's one crop that never fails in Riverboro!"

"What's that?" asked Miss Lydia politely.

"The fool crop," responded Miranda tersely, and changed the subject, much to Jane's gratitude, for she had been nervous and ill at ease for the last fifteen minutes. What child in Riverboro could be described as remarkable and winning, save Rebecca? What child had wonderful eyes, except the same Rebecca? and finally, was there ever a child in the world who could make a man buy soap by the hundred cakes, save Rebecca?

Meantime the "remarkable" child had flown up the road in the deepening dusk, but she had not gone far before she heard the sound of hurrying footsteps, and saw a well-known figure coming in her direction In a moment she and Emma Jane met and exchanged a breathless embrace.

"Something awful has happened," panted Emma Jane.

"Don't tell me it's broken," exclaimed

Rebecca.
"No! oh, no! not that! It was packed in straw, and every piece came out all right; and I was there, and I never said a single thing about your selling the three hundred cakes that got the lamp, so that we could be together when you

"Our selling the three hundred cakes," corrected Rebecca; "you did as much as

"No, I didn't, Rebecca Randall. I just sat at the gate and held the horse."
"Yes, but whose horse was it that took us to North Riverboro? And besides, it just happened to be my turn. If you had gone in and found Mr. Aladdin you

would have had the wonderful lamp given to you; but what's the trouble?" The Simpsons have no kerosene and no wicks. I guess they thought a banquet lamp was something that lighted itself, and burned without any help. Seesaw has gone to the doctor's to try if he can

borrow a wick, and mother let me have a pint of oil, but she says she won't give me We never thought of any more. pense of keeping up the lamp, Rebecca."
"No, we didn't, but let's not worry

about that till after the party. I have a handful of nuts and raisins and some

apples."
"I have peppermints and maple sugar,"
said Emma Jane. "They had a real
Thanksgiving dinner; the doctor gave them sweet potatoes and cranberries and turnips; father sent a spare-rib, and Mrs. Cobb a chicken and a jar of mince-meat. At half past five one might have looked

in at the Simpsons' windows, and seen the party at its height. Mrs. Simpson had let the kitchen fire die out, and had brought the baby to grace the festal scene. The lamp seemed to be having the party, and receiving the guests. The party, and receiving the guests. The children had taken the one small table in the house, and it was placed in the far corner of the room to serve as a pedestal. On it stood the sacred, the adored, the long-desired object; almost as beautiful and nearly half as large as the advertisement. The brass glistened like gold, and the crimson paper shade glowed like a giant ruby. In the wide splash of light that it flung upon the floor sat the Simpsons, in reverent and solemn silence Emma Jane standing behind them, hand in hand with Rebecca. There seemed to be no desire for conversation; the occasion was too thrilling and serious for that. The lamp, it was tacitly felt by everybody was dignifying the party, and providing sufficient entertainment simply by its presence; being fully as satisfactory in its way as a pianola or a string band.
"I wish father could see it," said Clara

"If he onth thaw it he'd want to thwap it," murmured Susan sagaciously. Belle loyally.

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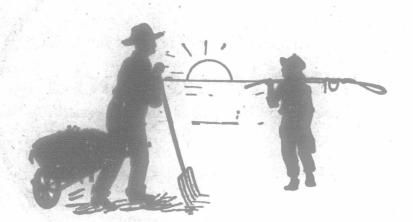
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R. DILLON & SON ONT. OSHAWA,



At the appointed hour Rebecca dragged herself reluctantly away from the enchanting scene.

"I'll turn the lamp out the minute think you and Emma Jane are home," said Clara Belle. "And, oh! I'm so glad you both live where you can see it shine from our windows. I wonder how long it will burn without bein' filled if I only keep it lit one hour every night?"

"You needn't put it out for want o' karosene," said Seesaw, coming in from the shed, "for there's a great kag of it settin' out there. Mr. Tubbs brought it over from North Riverboro and said somebody sent an order by mail for it."

Rebecca squeezed Emma Jane's arm, and Emma Jane gave a rapturous return squeeze. "It was Mr. Aladdin," whisperd Paleocca as they ran down the path to

ed Rebecca, as they ran down the path to the gate. Seesaw followed them and handsomely offered to see them "a piece" down the road, but Rebecca declined his escort with such decision that he did not press the matter, but went to bed to dream of her instead. In his dreams flashes of lightning proceeded from both her eyes, and she held a flaming sword in either hand.

Rebecca entered the home dining-room joyously. The Burnham sisters had gone and the two aunts were knitting. "It was a heavenly party," she cried,

taking off her hat and cape. "Go back and see if you have shut the door tight, and then lock it," said Miss

Miranda, in her usual austere manner.
"It was a heavenly party," reiterated Rebecca, coming in again, much too excited to be easily crushed, "and oh! aunt Jane, aunt Miranda, if you'll only come into the kitchen and look out of the sink window, you can see the banquet lamp shining all red, just as if the Simpsons house was on fire.

"And probably it will be before long," observed Miranda. "I've got no patience with such foolish goin's-on

Jane accompanied Rebecca into the kitchen. Although the feeble glimmer which she was able to see from that dis-tance did not seem to her a dazzling exhibition, she tried to be as enthusiastic

as possible.

"Rebecca, who was it that sold the three hundred cakes of soap to Mr. Ladd in North Riverboro?'

"Mr Who?" exclaimed Rebecca. "Mr. Ladd, in North Riverboro." "Is that his real name?" queried Rebecca in astonishment. "I didn't make a bad guess;" and she laughed softly to herself.

"I asked you who sold the soap to Adam Ladd?" resumed Miss Jane.
"Adam Ladd! then he's A. Ladd, too; what fun!"

"Answer me, Rebecca."

"Oh! excuse me, aunt Jane, I was so busy thinking. Emma Jane and I sold the soap to Mr. Ladd."
"Did you tease him, or make him buy

"Now, aunt Jane, how could I make a

big grown-up man buy anything if he didn't want to? He needed the soap dreadfully as a present for his aunt."

Miss Jane still looked a little unconvinced, though she only said, "I hope your aunt Miranda won't mind, but you know how particular she is, Rebecca, and I really wish you wouldn't do anything out of the ordinary without asking her first, for your

actions are very queer."
"There can't be anything wrong this time," Rebecca answered confidently.
"Emma Jane sold her cakes to her own relations and to uncle Jerry Cobb, and I went first to those new tenements near the lumber mill, and then to the Ladds' Mr. Ladd bought all we had and made us promise to keep the secret until the premium came, and I've been going about ever since as if the banquet lamp was inside of me all lighted up and burning,

for everybody to see."
Rebecca's hair was loosened and falling over her forehead in ruffled waves; her eyes were brilliant, her cheeks crimson there was a hint of everything in the girl's face,—of sensitiveness and delicacy as well as of ardor; there was the sweetness of the mayflower and the stregnth of the young oak, but one could easily divine that she was one of

"The souls of nature pitched too high.
By suffering plunged too low."

"That's just the way you look, for all the world as if you did have a lamp burning inside of you," sighed aunt Jane. "Rebecca! Rebecca! I wish you could take things easier child. I am fearful take things easier, child; I am fearful for you sometimes."

(To be continued).

# III SIDIAD

AMAN tried to sell me a horse once. He said it was a fine horse and had nothing the matter with it. I wanted a fine horse, but, I didn't know a nything about horses much. And I didn't know the man very well cities.

know anything about horses much. And I didn't know the man very well either.

So I told him I wanted to try the horse for a month. He sald "All right." but pay me first, and I'll give you back your money if the norse isn't all right."

Well, I didn't like that. I was afraid the horse was 'nt "all right" and that I might have to whistle for my money if I once parted with it. So I didn't buy the horse, although I wanted it badly. Now, this set me thinking,

You see I make Washing Machine as I thought about the horse, and about the man who owned it.

But I'd never know, because they wouldn't write and tell me. You see I sell my Washing Machines by mail, I have sold over half a million that way. So, thought I, it is only fair enough to let people try my Washing Machines for a month, before they pay for them, just as I wanted to try the horse.

Now, I know what our "1900 Gravity" Washer will do. I know it will wash the clothes, without wearing or tearing them, in less than half the time they can be washed by hand or by a "yother machine.

I know it will wash a tub full of very dirty clothes in Six Minutes. I know no other machine ever invented can do that, without wearing the clothes. Our "1900 Gravity" Washer does the work so easy that a child can run it almost as well as a strong woman, and it don't wear the clothes, fray the edges, nor break buttons, the way all other machines do.

It just drives soapy water clear through the fibres of the clothes like a force pump might.

So, said I to myself, I will do with my "1900 Gravity" Washer what I wanted the man to do with the horse. Only I won't wait for people to ask me. I'll offer first, and I'll make good the offer every time.

Let me send you a "1900 Gravity" Washer on a month's free trial. I'll pay the freight out of

with the horse. Only I won't want for people to ask me. I'll offer first, and I'll make good the offer every time.

Let me send you a "1900 Gravity" Washer on a month's free trial. I'll pay the freight out of my own pocket, and if you don't want the machine after you've used it a month, I'll take it back and pay the freight too. Surely that is fair enough, isn't it.

Doesn't it prove that the "1900 Gravity" Washer must be all that I say it is?

And you can pay me out of what it saves for you. It will save its whole cost in a few months in wear and tear on the clothes alone. And then it will save 50 to 75 cents a week over that in washwoman's wages. If you keep the machine after the month's trial, I'll let you pay for it out of what it saves you. If it saves you 60 cents a week, send me 50 cents a week 'till paid for. I'll take that cheerfully, and I'll wait for my money until the machine itself earns the balance.

Drop me a line to-day, and let me send you a pook about the "1900 Gravity" Washer, that washes clothes in six minutes. washes clothes in six minutes.

Address me personally: A. T. MORRIS, Manager 1900 Washer Co., 357 Yonge St., Toronto, Can.



IF YOU WANT Perfect

clear and healthy, free from spots, blotches and wrinkles, it will interest you to know that

**OUR HOME TREATMENT** 

is the most successful you can use to completely eradicate the trouble. Twenty years of success and our reputation behind our treatments and preparations. Consult us free at office or by mail.

SUPERFLUOUS HAIR, moles, warts, etc., permanently and satisfactorily removed by the only sure treatment, Electrolysis. Descriptive booklet "F" and sample toilet cream free.

HISCOTT DERMATOLOGICAL INSTITUTE

61 College St. Toronto, Ont

#### investment of Funds

If your surplus moneys are lying idle, or drawing only bank interest for lack of proper loaning facilities, consult with us and we will invest your funds in farm or city mortgages, thereby increasing your income, and furnishing you with responsible and experise of the street service of ienced service at moderate cost.

THE FIDELITY TRUSTS COMPANY OF ONTARIO. Dominion Savings Building, London.

JNDED 1866

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COMPANY OF

fing, London.



ALSO . **GUNN'S SHUR-GAIN FEEDS** FOR STOCK and POULTRY

## **GUNN'S**

40 years' experience behind them. Write for Price List

**Gunn's Pork and Beef Packers** WEST TORONTO

# GOVERNMENT STANDARD

Here we are again with some splendid seeds for 1913. If you bought of us last year you know our quality, if you did not, try us now. We send our seeds under the guarantee that if they do not entirely satisfy on arrival, you may ship them back at our expense. Most of our seeds we buy direct from the farmers here who grow them.

ALFALFA.—Our home-grown seed was a failure this year, as the wet weather caused plants to send out new growth instead of seed. We have imported some specially suited to our soil and climate, which we recommend. Price, \$12.00 per bushel.

RED CLOVER.—A splendid, clean, bright sample. Price, \$15.00 per bushel. ALSIKE.—Clean and bright. Price, \$15.00

O. A. C. No. 21 BARLEY .- 90c. per bushel. SILVER MINE OATS.—60c. per bushel. SIBERIAN OATS.—60c. per bushel. BANNER OATS .- 60c. per bushel.

These prices are good till next issue. Bags extra—cotton 25c., jute 10c. Cash must accompany order. Ask for samples.

The Caledonia Milling Co., Limited CALEDONIA, ONT.

This FREE Book

"WHEN POULTRY PAYS"

is worth dollars to any farmer's wife in Canada.

How to succeed with poultry without capital. Plain talk, solid facts, proofs. Sent for the asking.

MANUFACTURING CO.,Ltd.
13 Pembroke Street Pembroke, Ont.

SEED CORN—First-class Essex-grown Apply for

varieties and prices: WALTER C. ANDERSON Malden Centre P.O. Essex. Ont.

An up-to-date SILO OUTFIT For Sale.
Capable of building 10 feet per day. Apply to: EPH. DUNSMORE, Box 275, Stratford, Ont.

Bow Park Farm, Brantford, Ont., in an advertisement in this issue, states that the manager is prepared to purchase a small herd of Holstein cattle, or

The Caledonia Milling Co., Caledonia, Ont., in their new advertisement in this issue, call attention to their guaranteed Government Standard Seeds, including alfalfa, alsike, barley, and oats, of leading varieties, with prices.

ten registered heifers.

GOSSIP

#### COMING EVENTS.

Ontario Corn-growers' Convention and Exhibition, Windsor, Ont., Feb. 11-14. Ontario Fairs and Exhibitions Convention, Forrester's Hall, 22 College street, Toronto, Feb. 5-6.

Manitoba Winter Fair, Brandon, March

Saskatchewan Provincial Winter Fair, Regina, March 11-14.

Martin McDowell, Oxford Center, Ont., Eastwood Station, G. T. R., breeder of Holstein cattle, in his new advertisement, offers for sale young bulls bred from prizewinning and deep - milking strains, one from the first - prize aged cow in the milking test at the Winter Fair, Guelph, 1912, also a half-brother to the sweepstakes heifer under three years old. A few females are also for

A. W. Smith, Maple Lodge, Ont., ordering a change in his advertisement, writes: The young Shorthorn bulls of fered are a very nice lot, good lines, heads and horns, nice color, well-covered backs, and, like their sire, are thick and full around the crops and heart, and all have a splend'd coat of thick, soft hair. The dams of most of them are excellent milkers, and thick, well-fleshed cows, the kind that is looked for amongst Shorthorns just now.

HASSARD'S CLYDE 'AND PERCHERON SALG.

February 5th is the date fixed for the auction sale, at Maher's Horse Exchange, Toronto, of thirty imported Clydesdale and Percheron fillies, and six imported Clydesdale and Percheron stallions of fine breeding and quality, being sired by several of the most popular sires in the countries from which they have come, and were prominent prizewinners both in the old countries The Clydesdales and in Canada. are by such noted horses as the champion, Baron of Buchlyvie, Baron Beaulieu, Baron Gibson, Baron Albion, Baron Nelson, The Bruce, Montrave Ronald, Moncrieffe Marquis, etc. Some of the Percheron mares were high - class prizewinners at the Canadian National last year. One was champion at London, and a three-year-old won the open mare class at Guelph Winter Fair. See the advertisement, note the date and place, 16 - 28 Hayden street, Toronto.

#### QUESTIONS AND ANSWERS.

QUESTIONS AND ANSWERS.

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

2nd.—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.

3rd.—In Veterinary questions the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given.

4th.—When a reply by mail is required to urgent veterinary or legal enquiries, \$1.00 must be enclosed.

#### Miscellaneous.

RURAL MAIL-ROUTE EXTEN-SION.

To whom should we apply by petition for an extension of our present rural mail-delivery route? CONSTANT READER.

Lambton Co., Ont.

Ans.-Post - office Inspector, London,



# A Million People Wear Them

In the United States and Canada

Six pairs of Cashmere Holeproof Hose are guaranteed to wear six months! If one or all pairs wear out or break a thread you get new pairs F-R-E-E!

A Guarantee Ticket with six coupons attached goes with every box of six pairs. If a pair wears out, send it back with one coupon. If two pairs wear out, send two coupons, etc.

#### 24,700,000 Pairs

All six pairs will probably outlast the guarantee. 95% of our total output for the past thirteen years has worn longer than six months. That amounts to 24,700,000 pairs!

FAMOUS FOR MEN WOMEN AND CHILDREN

#### Send Trial Order

Use the coupon below. Send in your order. Note their convenience. "Hole-proof" are made in two grades for men, in black, tan and navy blue. Medium at \$2 for six pairs and fine at \$3 for six pairs. Women's Cashmere Holeproof Stockings (black or tan) \$3 for six pairs. Children's Holeproof Stockings, 3 pairs guaranteed 3 months, \$1.00. Only one size in a box. Colors alike or assorted, as you desire. Indicate on the coupon the color, weight, size and kind you want and send the money in any convenient

money in any convenient way. Thousands buy from us this way. We guarantee satisfaction as well as the hose. Reg. U. S.
Pat. Office, 1906

CANADA, Ltd.

Conclinate 156 Bond St., London, Canada are your Hose alnsured?

#### A Wonderful Yarn

We pay the top market price for the yarn used in Holeproof Hose. But our hose wear as no others do. We could buy common yarn for less than half what we pay, but our wear is our feature. We would not dare lessen it.

#### \$60,000 a Year for Inspection

We spend \$60,000 a year just to see that each pair of "Holeproof" is perfection, for we cannot afford to replace many pairs. The million people who wear "Holeproof" are used to a wonderful quality. We cannot chance disappointing them.

The figures above refer to the entire Holeproof business, both in the States and Canada.

#### Trial Box Order Coupon

HOLEPROOF HOSHRY CO. OF CANADA, Ltd. 156 Bend St., Lendon, Can. Hose for ..... (state whether for men,

women or children). Size..... Color..... Weight....

#### Renovates Old Worn-out Pastures Without Re-seeding

There are thousands of farmers in Ontario whose pastures have been worn out by the continued grazing of dairy stock. Such lands have been drained of fertility, and now grow only poor, worthless vegetation. Clover has entirely disappeared. This need not continue. A dressing of BASIC SLAG applied disappeared. broadcast at the rate of 1,000 lbs. per acre will bring these pastures back into good heart and double or treble their capacity for stock-carrying. The effect of such an application should be apparent for four or five years.

BASIC SLAG is being used in thousands of tons in the Maritime Prov-

inces and Quebec, and the consumption in Europe amounts to over 2,000,000 tons per annum. It is therefore no untried fertilizer. Every farmer from the Old Country knows about BASIC SLAG, but for your own satisfaction ask Old Country knows about BASIC SLAG, but for your own satisfaction ask the Dept. of Agriculture Inspector for your district, or the editor of any farming journal as to its merits. BASIC SLAG is the ideal fertilizer to apply to stiff clay lands, to wet marshy fields and to all soils which have become sour. If you have any such pasture, buy one ton of BASIC SLAG and broadcast same over two acres, applying it at the earliest opportunity—the sooner the better. Until our selling arrangements in Ontario are completed you can be supplied direct from the factory at \$20 per ton, carriage prepaid to your nearest station—cash with order. Make this experiment, and you will feel grateful to us for bringing the merits of BASIC SLAG under your notice. An interesting pamphlet giving particulars of the results obtained by leading agriinteresting pamphlet giving particulars of the results obtained by leading agriculturists from the use of BASIC SLAG will be forwarded by post on application to:

THE CROSS FERTILIZER CO'Y, LIMITED Sydney, Nova Scotia

Or to their Sales Agent for Ontario-

MR. A. E. WARK, Wanstead, Ont.

125-Egg Incubator and Brooder 10th \$13.75 If ordered together we send both machines for only \$13.75 and we pay all freight and duty charges to any R. R. station in Canada. AND DUTY We have branch warehouses in Winnipeg, Man. and Toronto, Ont. Orders shipped from nearest warehouse to your R. R. station. Hot water, double walls, dead-air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Especially adapted to Canadian climate. Incubator and Brooder shipped complete with thermometers, lamps, egg testers—ready to use when you get them. Five year guarantes—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others, we feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Remember our price of \$13.75 is for both Incubator and Brooder and covers freight and duty charges. Send for FREE estalog today, or send in your order and save time.

Without the statement of the control of the co Write us to-lay. WISCONSIN INCUBATOR CO., Box 212, Racine, Wis., U. S. A.



# **Annual Combination Auction Sale**

# Clydesdales Percherons

Will be held at

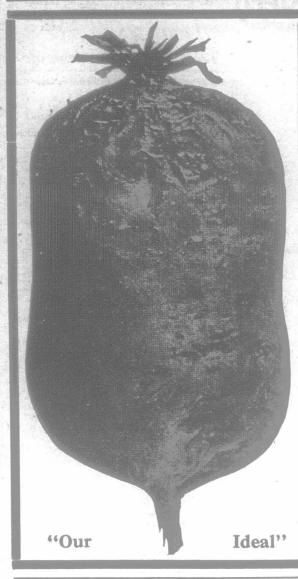
UNION STOCK YARDS, TORONTO

# Tuesday and Wednesday, Feb. 25 and 26, 1913

Tuesday, February 25th, at 11 a.m.—75 Clydesdales. Wednesday, February 26th, at 11 a.m.—50 Percherons.

These horses will be the best of Canadian-bred and imported stock of these popular breeds. Stallions, mares, mares in foal and fillies. If you have any pedigreed stock to sell, write for terms.

Union Stock Yards of Toronto, Limited HORSE DEPARTMENT, TORONTO



# FARMERS! Buy always the Best

Buy our famous, superior home-grown and imported seeds. Ask for catalogue. Order our famous Special Collections.

Farm garden collection, 26 selected varieties, \$1 postpaid. Trial collection, 18 selected varieties, 50c. postpaid. Children's collection, 15 selected varieties, 25c. postpaid.

OUR HOME-GROWN

# Yellow Mangel "Our Ideal"

leads them all. It is the new mangel with the greatest future. An easy harvester and a keeper of highest feeding value. The 1912 report of the Ontario Agricultural & Experimental Union in the competing co-operative experiments, shows the "Ideal" as the leading variety, with 100 value and 32.40 tons per acre.

50 cents per pound.

Give them a trial.

Ontario Seed Co., Successors

WATERLOO, ONTARIO
Our Hurst Sprayers are the best. As

Ask for Catalogue

# Hawthorne Glen Holstein Herd Offers young bulls ready for service, one from

Calamity Houwtje, winner of 1st prize in cow class at Guelph, 1912; also a half-brother to Pontiac Jessie, sweepstakes heifer under 36 months; also a few females. Prices reasonable.

Write for particulars, or come and make your choice.

MARTIN McDOWELL
Eastwood Sta. G. T. R. Oxford Centre, Ont

FOR SALE
REGISTERED BULL CALVES

From one to four months old.
Price from \$25.00 to \$50.00.
These calves are equal to any \$100 stock. Apply

MOUNT DAIRY, MILTON, ONT.

Important NOTICE TO FARMERS.—A post card mailed to us will afford you valuable information as what to do in the event of FIRE. Our information will protect you from heavy losses. Dominion Chemical Bureau, Birk's Bldg., Montreal, Canada.

# A Small Herd of Pedigree Holstein Cattle or 10 Registered Holstein Heifers Wanted!

BOW PARK FARM, BRANTFORD, ONTARIO

IMP. CLYDESDALE STALLIONS AND FILLIES

just landed. Size and quality and breeding unsurpassed. Come and see them. Prices away down. Terms to suit buyer. W. B. ANNETT, ALVINSTON, ONT. Farm situated five miles from Watford, Ont., G. T. R. station, and four miles from Alvinston, G. T. R. and M. C. R.

Columbia Double
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DOUBLE VALUE FOR YOUR MONEY



DUNHAMS'
PERCHERONS
are today as for the past

forty-seven years the

- B-E-S-TFresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, III.

#### GOSSIP.

GRAHAM-RENFREW CLEARING SALE The dispersion sale in Toronto, on Friday, February 7th, of the entire stud of Clydesdales, Hackneys, and Welsh ponies, belonging to the noted firm of importers, Graham-Renfrew Co., will afford a rare opportunity to secure firstclass imported and Canadian - bred animals of up-to-date character and breeding, at the buyer's own prices. The splendid record this firm has made in prizewinning at leading shows in Canada and the United States, is a guarantee that the stock they are selling will be of the best. Having sold their farm at Bedford Park, north of Toronto, now annexed to the city, the sale will be without reserve. See the advertisement, note the date and place, and if interested apply for catalogue.

The year of 1912 was, so far as the Clydesdale breed is concerned, one of progress on every hand. The value of the type has been enhanced considerably, the export trade with Canada, the United States, and other countries, has kept well up, and breeders are paying more attention than ever to the proper registration of their stock in the Studbook. So says a writer in the London Live-Stock Journal Almanac for 1913. Breeders, however, are not in every case in agreement as to what constitutes an ideal Clydesdale, but the majority appear to favor a horse which, given plenty of bone without grossness, and with comparative freedom of action, is fitted to do a heavy day's lorry work and keep fit. The "tall" horse with fine bones finds favor with a few, but the number who place their faith in this type is becoming gradually less. It is recognized that those who want a horse for heavy work are not likely to purchase one of the latter kind, whilst there are plenty of the former to be had, and in the end it is the price that rules the type, and of course the price will only be given for the sort that has been proved to be suitable for the work re-

Robt. McEwen, of Alloway Lodge Stock Farm, Byron, Ont., in changing his advertisement, reports the following sales of Southdowns in 1912: To T. A. Cox, Brantford, a home-bred stock ram; W. W. Down, Brighton, three shearling ewes, in lamb; F. W. Harding, Waukeshaw, Wis., the stock ram, Babraham Hector, sire of most of my winning lambs in 1911 and 1912; C. R. Doty, Charleston, Ill., a fitted show flock of seven head; Cooper & Nephews, Sugar Grove, Ill., a fitted two-shear ewe; A. M. Casey, of Caseyland Seed and Stock farm, a fitted shearling ram and ewe, and a fitted ewe lamb and ram lamb: Sir William Van Horne, Montreal, ten breeding ewes and a two-shear stock ram; J. R. Dennis, Charlottetown, P. E. I., purchased eight young ewes, and the first-prize shearling ram at London last fall; T. A. Cox bought the firstprize ewe lamb at Guelph, in December, while the Ohio University at Columbus, got four wether lambs, including the first-prize pen at the same show, and W. H. Miner, Chazy, N. Y., for Heart's Delight Farm, two winning ewe lambs and two ram lambs, which were first and second at London last fall. Among those getting ram lambs to use as flockheaders, were Fred Dell, Niagara Falls South; F. W. Miller, Bridgeburg; E. C. Bennett, Thornbury; Hampton Bros., Living Springs; A. R. McNiven, Ingersoll; O. W. Nuttal, South Lake, and I. B. A. Lucas, Bongards Corners. There were also some shearling rams purchased by the Dominion Sheep-breeders' Association for their sales. I am pleased to say that in almost every case, writes Mr. McEwen, the men who received this stock wrote they were well pleased, and promised their trade for another year. This means that as I am breeding for quality and not quantity, it will be necessary for intending purchasers to order early to secure what they want, as last year the demand exceeded the supply, and an even better trade is looked for this season. I thank you for the assistance "The Farmer's Advocate" has been to me in making last year my most successful one, and wish you every success for 1913.

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JANUARY-30, 1913

# Greatness Thrust Upon

There is an old adage somewhere that says, "some (men) have greatness thrust upon them." The story that I am to tell is one of a man who became great in the agricultural world without knowing it.

In detail, this is what happened: Henry Salmon, who lives at Raymond, Alberta, and farms a small piece of ground just outside the town, bought some Red Fife wheat for seed, in 1908. He sowed it that year, and next year used the resultant product for all his wheat ground. The land had not been summer-fallowed or tilled in any special way, and the seed was put in broadcast. Two horses and a hand-plow did all that was done in the way of preparation. After seeding, it was levelled with a plank. Enough for the seeding.

"Providence must have meant that seed to win a world prize," said Henry Sal-mon to the writer, "I never tried for

What Henry Salmon did was to show a bushel of the wheat at a seed fair in his home town the fall after it was sown in 1909. But it didn't get a "Too dirty," the judge said. Well, it was dirty. Henry Salmon knew it was dirty, but it was only a Raymond Fair, and he didn't care.

The judge knew, however, that Henry Salmon had good wheat, and after judging was completed he offered the grower a dollar bill for his wheat. Henry took it, of course. The wheat wasn't worth it, he thought, and he would not turn down a good offer like that. So the bushel was taken to Lethbridge.

In the fall, 1909, there was held at Omaha, Neb., a Corn Exhibition. Competition was open to the world, and Canada was in it. The city of Lethbridge had an exhibit preparing for the Exposition, and Henry Salmon's bushel of Red Fife wheat was put in it. More than that, it was thought to be so good that it was entered in the competition open to the world. It had to be entered in the grower's name, and Henry Salmon was the grower. So the bushel of Red Fife wheat was entered at Omaha in Henry Salmon's name.

Now, Henry Salmon is not well known in Lethbridge; at least he was not at that time, and the fact that the bushel of wheat was good, did not necessarily mean that those who knew it must associate with it the name of the grower. vay, it captured the prize the best wheat in the world, and then the promoters of the Lethbridge exhibit began to look around for the grower. There was some gold for him, and to it they had no right. So they asked where Henry Salmon was. Nobody knew. The judge who bought the wheat was away from the city, and no trace of the owner of the precious bushel of Red Fife could be found.

The newspapers took the matter up. They advertised, but still nothing could be heard of Henry Salmon. At last, one day a neighbor talking with Mr. Salmon asked him if he ever sent any wheat to Omaha. Mr. Salmon answered that he had not, but that he had sold what he showed at the seed fair at Raymond to a man in Lethbridge. It was finally worked out that this prizewinning wheat was one and the same hushel as that grown by the Raymondite.

So the wheat came back from Omaha; the same wheat, and yet not the same, for now it had attached to it the gold seal of that National Exposition, and this was at once turned over to its rightful owner, for he had indeed, though not knowing it, grown the best bushel of wheat in the world.

Henry Salmon showed the medal to the writer at the time of this interview. Those who were fortunate enough to visit the Dry-farming Congress at Lethbridge last fall may have seen this medal on this man marching before a brass band, and hailed by the citizens of his home town as one of the men that made Possile the holding of such gatherings. Henry Salmon himself, while justand of his medal, admits that anyunder similar circumstances might had the gold .- W. McD. Tait.

THE FARMER'S ADVOCATE.

# DIASSIIE

is made in England and is recognized by the leading veterinary surgeons in Great Britain—used in all mounted departments of the British Army—large Cartage Companies-Omnibus Companies-and all owners of horses having heavy work to do or for show or breeding purposes. It is



# A Splendid Economical Feed for Horses, Cattle, Sheep and Pigs



"MOLASSINE MEAL" is not only a good food itself but enables the animal fed on it to obtain the full nourishment from all otherfood. When MOLASSINE MEAL is fed regularly three times a day, you have no waste fodder of any kind. It costs you less for feed and the animals obtain more nourishment.

Get some from your dealer to-day. If he has not got it, write and let us know at once.

There are dozens of molasses preparations on the market but only one MOLASSINE MEAL

# The Molassine Co., Ltd. London, England

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Write to the Department of Inland Revenue, Ottawa, for their Bulletin No. 241, on Registered Stock Foods, and see the Government analysis of MOLASSINE MEAL. It is better than its guarantee and away ahead of any other molasses food.

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To our past customers and intending purchasers, we wish to say that we can show you something really worth while in Canadian-bred and imported Clydesdale stallions and mares. Our aim is to please you.

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STRONGEST and best farm gate made. 30,000 sold in 1912. Can't sag, bend or break. Can be raised as shown. Good for Winter and Summer, Send for illustrated price list.

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Any kind of VETERINARY DRUGS

you need any, write at once, when we will quote very low and reasonable prices.

Consultation by letter FREE of charge, with our diplomed veterinary doctor. For any

diseases, write and consult him now NATIONAL STOCK FOOD COMPANY

Ottawa, Ontario.

DR.BELL'S Veterinary Medical Wonbrace to horsemen who will give The Wonder a
fair trial. Guaranteed to cure Infammation,
Colic, Cougha, Colde, Distemper, Fevera, etc.
Agents wanted. DR. BELL, V.S., Kingston, Ont.

#### GOSSIP.

Volume 15, of the Canadian Holstein-Friesian Herdbook, recently issued from the press, a copy of which, by courtesy of G. W. Clemons, Secretary and Editor, has been received at this office, is a substantial and well-printed volume. containing pedigrees of 2,614 bulls, numbering from 10522 to 12936, and 3.508 females, numbering from 15458 to 18961, a total of 6,122. A list of over 1,200 members is included in the volume, also a list of 72 Record of Merit bulls, 341 Record of Merit cows, and a report of 47 cows and heifers that have qualified in the Canadian Record of Performance test from June 1st. 1911, to February 1st. 1912.

BLACK DODDIES AT AUCTION. " Having leased one of their farms, Geo. Davis & Sons, of Glengore Farm, four miles from either Alton or Erin Stations, C. P. R. where conveyances will meet all morning trains on day of sale, are compelled to make a big reduction in their large herd of Aberdeen - Angus cattle, and on Wednesday, February 12th, will sell by auction thirty head, twentyone of them registered, the balance Angus grades. Of the pure-breds, sixteen are females and five are bulls. Among the latter are the two stock bulls, Cochrane of Tweedhill 1905, a sixyear - old Mayflower, and Middlebrook Prince 3rd 5888, a yearling Pride, sired by the Toronto champion, Hundred. The senior stock bull has proven his superior worth as a sire, his get showing a remarkable levelness and evenness of flesh. The young bull has all the qualifications and breeding that should make for success as a sire. The other young bulls are sons of the old bull, and look like show-ring material. Of the females, four are yearlings, six are two-year-olds, one is three years old, the balance mature cows. They are all of the popular Fair Lady and Mayflower tribes, in nice condition, and just the kind with which to start a herd of what has proven to be one of the world's greatest beef breeds. Remember the date, Wednesday, Feb. 12th.

LIVE-STOCK ASSOCIATION MEET-INGS.

Following are the dates fixed for annual meetings of live-stock association members in Toronto. Members from east of Port Arthur should purchase single-fare tickets to Toronto, and secure standard certificate receipt from the ticket agent. On these being vised in Toronto, the holders will be returned

Dominion Cattle - breeders' Association. at the Walker House, Monday, February 3rd, 3 p. m.

Berkshire - breeders' Society, at the Walker House, Tuesday, February 4th,

Ontario Large Yorkshire Swine - breeders' Society, Walker House, Tuesday, February 4th, 11 a. m. Dominion Shorthorn Association, Tues-

day, February 4th. Dominion Swine - breeders' Association, in Temple Building (corner Bay and Richmond streets), room 2, 4th floor,

Tuesday, February 4th, 2 p. m. Ontario Horse - breeders' Association, Walker House, Thursday, February 6th,

10 a. m. Ontario Sheep - breeders' Association, Walker House, Thursday, February 6th,

Dominion Sheep - breeders' Association, Temple Building (corner Bay and Richmond streets), room 2, 4th floor, Friday, February 7th, 9 a. m.
Canadian Shire Horse Association, King Edward Hotel, Friday, February

7th, 2 p. m. Canadian Pony Society, Prince George Hotel, Thursday, February 6th, 8 p. m. Canadian Clydesdale Horse-breeders'

Association, February 6th. Canadian Holstein-Friesian Association,

The Canadiac Ayrshire - Incoders' Association control resetting will be held at

Imported Clydesdales and Percherons

FEBRUARY 5TH, 1913

MAHER'S HORSE EXCHANGE, TORONTO 16-28 Hayden Street

T. H. Hassard, Markham, Ont., will sell at Auction, 25 Imported Clydesdale and Percheron Fillies, and 6 Clydesdale and Percheron Stallions. These mares are sired by such well-known horses as Baron of Buchlyvie, the \$47,500 champion sire, Baron Gibson, Baron Rothschild, Baron Albion, Baron Nelson Moncrieffe Marquis Pacific, The Bruce, Royal Fashion, Montrave Ronald, Musilino, Homer's Kyle and many others, and have been highly successful at the leading shows.

Some of these Percheron Mares were prizewinners at the Canadian National, Toronto, 1912, and first and champion at London, 1912. A three-year-old won the open mare class at Guelph, 1912.

The stallions are all young, up to good size, with lots of substance and quality and bred in the purple.

Owing to our barns being overstocked these all will be sold to the highest bidder.

Catalogues will be ready on Jan. 20, 1913, and may be obtained from either JAS. TORRANCE, Markham, Ont., THE MAHER'S HORSE EXCHANGE, 16-28 Hayden Street, Toronto, Ont.

T. H. HASSARD

MARKHAM, ONTARIO

# Clydesdales & Shorthorns

FOR QUICK SALE

6 Imported Stallions-4 two-year-olds and 2 yearlings.

Also a number of in-foal mares and fillies, sired by Royal Edward, Hillhead Chief, Farmer's Counsel and Baron Lomond. The stallions are by such sires as Baron of Buchlyvie, Pride of Blacon, Baron Beaulieu, Cimaroon and Brigadier General.

young bull fit for service, sired by (Imp.) One Rob Roy; also a few heifers. Prices reasonable. Address:

W. W. HOGG, Thamesford, Ont.

ORMSBY GRANGE STOCK FARM, Ormstown, P. Que. As I am feeding no steers this winter I have filled my stables with imported fillies, selected personally in Scotland; many in foal to such sires as Hiawatha, Sir Hugo, King's Champion, Sir Rudolph, etc. Fourteen have been so.d, eighteen of the best are still on hand—the selections being made more on account of price than superiority. There are no culls in the lot. Send for pedigrees and particulars

D. MCEACHRAN.

CLYDESDALES OF CANADA'S STANDARD

They have arrived—my third importation for 1912, stallions and fillies. I have now the biggest selection in Canada, and a few toppers in stallions. High-class breeding and high-class quality and low prices. G. A. BRODIE, Newmarket P.O. Clydesdales and Percherons Stallions and fillies of either breed. Over forty head to

reality as well as in name. Highest types of the breeds. Over forty head to select from. Draft horses in Come and see them. Terms T. D. ELLIOTT & SON, BOLTON, ONTARIO

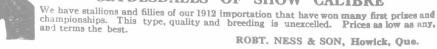




Percheron, Belgian and Shire Stallions—Imported and home-bred. Three to four years old, maturing 1,800 to 2,400 lbs. No finer lot in America. Prices and terms reasonable. Barns in city. LEW W. COCHRAN, Office, 205 Ben Hur Bldg., Crawfordsville, Ind.

Stallions — CLYDESDALES — Fillies I have a big importation of Clyde stallions and fillies just landed; a lot that cannot be duplicated to-day in Scotland and never was in Canada. Let me know your wants.







THE LAME HORSE is never cured whose owner reads and doubts, BUT FAILS TO ACT-Here is a case in Point,-And what Happened to this Subscriber is Taking Place with Thousands,

Taking Place with Thousands,
Letter Na. 1 Orleans, Vermont, April 20th, 1912.
Troy Chemical Co., Binghamton, N. Y.—Your adv. has given me courage to try again. I have a valuable pacer. I wo years ago he went lame. I trued every remedy and Dootors have blistered three times for spavin and twice hip. The symptoms are—etc., etc. I determined to see what you think.

Letter No. 3
Orleans, Vt., May 2nd, 1912.—I received your letter and book yesterday and believe you are right about its being a home spavin. I was so encouraged I drove eight miles and bought a bottle of Fred D. Pierce, druggist at Barton, and will closely follow your special instructions. Thanking you for your quick reply to my first letter, I remain, Letter No. 3
Orleans, Vt., Oct. 2, 1912.—Perhaps you expected to hear

Letter No. 3

Orleans, Vt., Oct. 2, 1912.—Perhaps you expected to hear from me before, but I have been waiting to see if any trouble would return after stopping the treatment. I am pleased to say the horse is well. I cannot thank you enough for your interest and the advice you gave. If I had known about it two years ago it would have saved me old of money. Yours respectfully, HALE MASON. Save-The-Horse has stood alone and unique among

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Every bettle, of Save-the-Horse is sold with an fran-sind contract that has 660,000 paid-up capital back of it, guaranteeing to permanently cure or refund the menar; no matter whether it is Bene or Beg Spavin. Tenden disease or Path—nor how aged, serious or complicated too lameness or blamish may be.

But write, describing your case, and we will cond our 1800 K—sample contract, letters from Brooders and business men the world over, on every tind of case, and advice—all free (to heree owners and managers).

Write! AND STOP THE LOSS. TROY CHEMICAL CO.

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Exporters of Pedigree Live Stock of All Descriptions. Draft Horses a Specialty. Draft horses are high, and feed is low; imported horses bought well are easily the best value for money that can be bought in horse fiesh. Write us for full particulars. We can give highest references, many being to entire strangers who have dealt with us by correspondence only.

Shires and Shorthorns In Shire stallions and fillies, from the best stude in In Shire stallions and fillies, from the best stude in England, we are offering some rare annuals at rare prices. Scotch Shorthorns of either sex on age of highest breeding and quality. John Cardhouse & Son, Highfield, Ont. L.-D. Phone.

PLEASE MENTION THIS PAPER. | Montreal, February 12th, at 10 a. m.

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# TRANSIT

JANUARY 30, 1913

ORSES and cattle shipped to the Western Provinces or elsewhere can be insured under short term Policies of 5, 10, 15, 20, 25, 30 days to cover the Railroad transit and a few days after arrival. These policies cover the Owner against loss by Accident or Disease and only cost a few dollars per carload.

Losses are heavy on Live Stock shipments on account of injuries sustained in cars through rough shunting, trampling, car fever, etc. not to mention numerous other causes resulting fatally a day or two after landing at destination. We cover both on board car and after arrival, some other companies do not cover after arrival. Insure with us and get the most for an equal premium. Do not take any chances with others.

All kinds of live stock insurance transacted. Write us for particulars and name and address of mearest agent. THE GENERAL ANIMALS INSURANCE CO. OF CANADA, 718 ST. JAMES STREET, MONTREAL, Que.



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Under the

#### ONTARIO STALLION ACT

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#### A. P. WESTERVELT,

Sec'y Stallion Enrolment Board Parliament Buildings,

TORONTO.

#### GET RID OF **Worms and Bots**

You can remove every one of them. We guarantee to kill and bring from the body, dead, in from 18 to 24 hours, all pin worms and bots, with the safe and sure remedy. NEWVERMIFUGE

Absolutely harmless. Can be given to mares in foal before the eighth month. Horse owners write us that Newvermifuge has removed from 500 to 800 bots and worms from a single horse. An animal that is wormy can't help but be ugly and thin. If your horses are troubled with worms send us your order today.

6 Capsules \$1.25, 12 for \$2.00. Postage paid. Farmer's Horse Remedy Company, Dept. C2 592 7th Street, Milwaukee, Wis.

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Will meet importers at any port in France or Belgium, and assist them to buy Percherons, Belgians, French Coach horses. All information about subpping, banking, and pedigrees. Many years experience: best references. Correspondence solicited

Notice to Importers C. CHABOUDEZ & SON 205 rue La Fayette, PARIS, FRANCE.

If you want to buy Percheron Horses and Mares will save you time and money and all trouble with papers and shipment. Will meet importers at any landing port. I am acquainted with all breeders and farmers. Thirty years' experience. Best reference. Correspondence solicited.

For Sale—Registered Clyde Mare, 4 years old, sire Acme (imp.) [6187] (10485), tiam Agnes (imp.) 13536; in foal to Lord Charming [2264] 7564. W. H. KER & SON, St. George, Ont., Brant Co.

**OUESTIONS AND ANSWERS.** Veterinary.

STIFF IN JOINT.

Mare is stiff in fore leg. When started she drops her toe, but soon gets all

Ans.—The symptoms indicate inflammation of the shoulder joint. Give her rest. Clip the hair off joint, and blister with 2 drams biniodide of mercury and cantharides, mixed with 2 ounces vaseline. Tie so that she cannot bite the part. Rub the blister in well once daily for two days. On the third day apply sweet oil, and turn loose in a box stall. Oil every day until the hair grows again. If necessary repeat the blistering in a month.

OPHTHALMIA-RINGBONE.

1. Mare's eyes discharge a great deal of fluid; and sometimes there appears to be a scum over them.,

2. Horse has ringbone. We had it fired, but he is still lame. We do not want to punish him again unless certain of a cure.

Ans.-1. This is periodic ophthalmia, and it is probable it will result in blindness from cataract. Recurrence of the trouble cannot be prevented. Treatment consists in keeping in comfortable, partially - darkened stall. Get a lotion made of 10 grains sulphate of zinc and 10 drops fluid extract of belladonna, mixed with 2 ounces distilled water. Bathe eyes four times daily with hot water, and after bathing put a few drops of the lotion into each.

2. There is no sure cure for ringbone. In most cases, when firing has not effected a cure, a second firing is successful, but there is no surety of this. In such cases, the lameness can be cured by an operation by a veterinarian, which consists in removing the nerve-supply to the foot. This does not cure the disease, but cures lameness by removing sensation.

#### MISCELLANEOUS.

1. Three-months-old calf fed on milk and bran, refuses to eat the bran. He sweats a great deal, arches his back, and breathes heavily.

2. Another calf apparently all right was dead in an hour.

3. Another, three weeks old, refused his drink and gritted his teeth. I killed

4. A horse has a swelling the size of a hen's egg under his lower jaw. It looks like a ringworm.

Ans.-1. This is indigestion. Purge him with 8 ounces raw linseed oil, and feed a little chopped oats with the hulls sifted out, and a little linseed meal in-

stead of bran. 2. It is not possible to say, without definite symptoms, what caused death. It probably choked to death, or ruptured an internal blood vessel. A careful post-mortem would have revealed the

cause of death. 3. This was also indigestion. Treatment as advised for No. 1 would prob-

ably have saved it. 4. Ringworms are not like this. There is no tumor, and practically no elevation of the skin from ringworm. This is either a tumor or an abscess. If the former, it should be dissected out by a veterinarian; if the latter, it should be lanced, and then the cavity flushed out three times daily until healed with to five-per-cent, solution of carbolic acid, V. GIVING UP BUSINESS

# Imp. Clydesdales and Hackneys

BY AUCTION

Having sold their farm and stables, THE GRAHAM-RENFREW CO., LTD., of Bedford Park, Ont., will, on

Friday, February 7th, 1913

At the Repository of BURNS & SHEPPARD, Toronto. commencing at 11 a.m. sharp,

Hold an absolute dispersion sale of their entire stock of high-class horses, among which are five imp. and one Canadian-bred Clydesdale stallions, two imp. Hackney stallions, seventeen imp. and four Canadian-bred Clydesdale mares and fillies, two Clyde filly foals, two imp. Hackney mares, imp. Hackney and Welsh ponies, several high-class harness horses. Many of these were prizewinners and champions at such exhibitions as Toronto and Ottawa. All are young and in prime condition. Stars for the show-ring or breeding purposes.

Terms: For mares, fillies, ponies and harness horses, cash. For stallions, half cash, balance arranged.

Catalogues on application to

Graham Renfrew Company, Ltd. Bedford Park, Ontario

# Percheron Stallions and Mares

We have a large stock of imported stallions and mares to choose from. Our stallions are all Government inspected and approved, and are guaranteed foal getters. We have mares all ages, some nice matched pails in a lot and a good many in foal. At the Toronto Exhibition and Guelph Fat Stock Shows our Percherons won more ribbons than any other firms in the business. Intending purchasers write for catalogue.

HODGKINSON & TISDALE - BEAVERTON, ONT. G. T. R. and C. N. O. Railways Long Dist. Bell 'Phone No. 18



We have lately landed a shipment of Clyde stallions and fillies, several Scotch winners among them. Their breeding is unsurpassed. Comparison with any others in the country will make you a buyer from us. Our prices are as low as the lowest. L.-D. Phone. GOODFELLOW BROS., MACVILLE P. O., ONT.; BOLTON STATION, C. P. R.



QUALITY AND SIZE IN For the best the bread produces in the combination of CLYDESDALES

Size, character, quality, breeding and action, see my 1912 importation of Clyde Stallions and Fillies. Prices and terms unequaled.

JAMES TORRANCE, MARKHAM, Locust Hill, C. P. R. L. D. 'Phone

Rosedale Stock Farm—Breeder and importer of Clydesdale and Shire horses sheep. Established over 40 years. Always on hand, a big selection of highest quality. Write your wants. G.T.R. and C.P.R., Electric cars. J. M. GARDHOUSE, Weston, Ont.

Imported Clydesdale Fillies of "Baron's Pride," "Hiawatha" and "Royal Favorite" strains; also children's ponies, Long-distance 'phone 704 ring 41. ALEX. F. McNIVEN, Visitors met at any of the stations. St. Thomas, Ontario

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# NEW CENTURY WASHING MACHINE





You Can Depend On!

For convenience, trength and durability—get a T-A Handy Farm Wagon. Design d especially for tarm wo k, will give everlast! a service under the roughest usage to which a wagon can be put. And besides—it is easy on houses

T-A Wide-Tire Steel Wheels & Handy Parm Wagons
Carefully and strongly built, of the highest grade materi-



Tudhape-Anderson Co'y, Ltd.

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Write for literature and quotations on
DAVIES FAMOUS MIXED BRANDS (24)
Muriate of Potash
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In bag, ton, carload lots.

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High-grade materials. Low prices and easy terms. Special booklet, "Farm Davies Way," free. Patronize our agents.

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#### Learn GASOLINE Engineering

The gasoline engine is being used everywhere.
Take our course and learn how to run it. We teach also, Stationary, Traction, Marine,
Locomotive and Automobile
Engineering. Ask about what interests you.

"Canadian Correspondence College, Limited DRPT E. TORONTO, CANADA

# PRESIDENT SUSPENDER

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DEAFNESS
INSTANTLY RELIEVED BY THE OLD
DR. MARSHALL'S
CATARRH SNUFF
25 CATARRH SNUFF
PAID BY CH. MERITH MER CLEVELAND OHIO

Cream—Sweet or sour, bought at highest Toronto prices. at any point in Ontario. We furnish cans, pay promptly—haven't paid less than 32 cents for weeks. Write:
TORONTO CREAMERY CO., Ltd., Toronto

QUESTIONS AND ANSWERS. Veterinary.

#### UNTHRIFTY HORSE.

Horse eats well and feels well, but will not gain in flesh. His teeth are all right.

S. McAf

Ans.—The symptoms indicate worms. Take 3 ounces each of sulphate of copper and tartar emetic. Mix, and make into 24 powders. Give him a powder every night and morning in damp food, and after the last one has been taken, give a purgative of 8 drams aloes and 2 drams ginger.

#### OPHTHALMIA.

Nine-months-old colt has sore eyes.

The lids are swollen and closed. Upon examination I found a whitish substance covering the eye.

Ans.—Keep in darkened stell eveluded.

Ans.—Keep in darkened stall excluded from drafts. Get a lotion made of 10 grains sulphate of zinc, 10 drops of fluid extract of belladonna, and 2 ounces distilled water. Bathe the eyes four times daily with hot water, and after bathing put a few drops of the lotion into each eye.

#### UNTHRIFTY HORSE.

1. Four-year-old horse eats well and is well fed, but he is very thin, his hair is dry, and he tires easily.

2. Where can I procure a heifer of the same strain as the "musical ox," recently mentioned in these columns? We understand that music tends to increase the milk flow.

A. R.

Ans.—1. It is probable he has worms.

Take three ounces each of powdered sulphate of iron, sulphate of copper, and tartar emetic. Mix, and make into 24 powders. Give a powder every night and morning in damp food, and after the last one has been taken, give a purgative of 8 drams aloes and 2 drams ginger.

2. This ox is a prodigy. Animals with his peculiarities cannot be produced at will. Hence, you will have to entertain your milkers by music produced in some other way, if you wish more milk than they are at present producing. Real good things are not easily acquired.

#### GOSSIP.

The firm of Hickman & Scruby, Court Lodge, Egerton, Kent, England, exporters of draft horses and other pedigreed live stock, and who have a new advertisement in this issue, write: We are finding trade for draft horses exceptionally good. We have been consistent advertisers in your journal for several years past, so that your readers have got well acquainted with our name, and now that they have learned our methods, we are certain of a very big business. Many of those who are most pleased with what we have sent them, are men whom we have never seen, but who only know us from correspondence.

THE BIG CLYDESDALE AND HACK-

NEY SALE. In last wee's issue we gave a synopsis of the stallion end of the big dispersion sale of imported Clydesdale and Hackney stallions, mares and fillies to be held at Burns & Shephard's Repository, Toronto, on Friday, February 7th, the property of The Graham - Renfrew Co., Limited. This week a lttle will be said of the female end. Of the twenty Clydesdale mares and fillies to be sold, sixteen of them are imported, one being eight years old, one five years, one four years, two three years, and eleven two years. They are a particularly wellbred lot, most of them with four and five numbered dams. In character and quality they are up to a high standard, there being much show - ring material among them, and representing many of the leading sires and prizewinners of Scotland. It is certain that never before has there been offered by auction in this country a lot up to so high a standard. They are all in prime condition, and many of them are safe in foal. Several particularly well-matched pairs are among them. Besides these, there are four Canadian-bred mares, and two filly foals, two unported Hackney mares, Hackney ponies, Welsh ponies, and high-class harness horses. All the stallions are Government inspected, and hold certificate of soundness.

# Oat Feed, Feed Meal

# **Barley Meal**

We can ship you the above in mixed carloads or

# FEED WHEAT, CORN, BARLEY and OATS

In straight carloads

If your dealer does not handle the ARCHIBALD BRAND, write us direct for samples and prices. It will pay you.

We also have Canada Western Seed Oats for sale.

# ARCHIBALD CEREAL COMPANY

WOODSTOCK

**ONTARIO** 

LIMITED.

THE GREAT CANADIAN ANNUAL SALE OF

# Scotch Shorthorns

Will be held at the UNION STOCK YARDS, TORONTO, ONT.. on

# Wednesday, February 5th, 1913

Beginning promptly at 11 o'clock a.m.

W. R. Elliott & Sons, Guelph, Ont., will sell one bull, Climax, by Uppermill Omega, from Imported Cinderella 9th, one of the best breeding cows we know, this bull is two years old, and he is one of the best and richest-bred young bulls, to be found any place. They also sell three females, two of them are Miss Ramsdens, full sisters, that have won second place in Toronto as produce of and both by the same sire as the great champion heifer that will be sold in this sale, a great pair, worth a lot; the fourth is a Brawith Bud, by same sire and from a Marquis of Zenda mother, a grand heifer, too.

John Miller, Jr., Ashburn, Ont., will contribute seven head, two bulls and five heifers: Duchess of Glosters, one Beauty, one Matchless, one Cruickshank Village and one bull from Imported Fancy. A splendid lot of good going cattle, bred right, full of profit for the buyer, the best young things in his herd.

Robert Miller, Stouffville, Ont., will furnish 22 head, the best lot that have ever left Burnbrae Farm. There are seven bulls, a Broadhooks by Superb Sultan, a Cruickshank Buckingham by same sire, a great son of Imported Ruby 2nd by same sire, a great red bull from a Bruce Mary Lind cow, a Butterfly bull, one of the best we have seen, from imported dam and a Duthie-bred sire, he has full sister one of the best cows living, a brother at the head of one of the greatest herds in Canada. He is worth any price; one Jessamine of great merit. Making all told the greatest lot of bulls ever offered in any sale in Canada.

Mention this paper when you write

ROBERT MILLER,

Stouffville, Ont., catalogue

# Aberdeen-angus by Auction

THE WORLD'S GREATEST BEEF BREED

At their farm, Glengrove, four miles from either Alton or Erin stations, C. P. R., where conveyances will meet the morning trains, Mr. Geo. Davis & Sons, will, on

Wednesday, February 12th, 1913
sell unreservedly by auction 30 head of Aberdeen-Angus cattle, 16 registered females, 5 registered bulls, balance grades. These are a choice lot, nearly all property flower and Fair Lady tribes.

TERMS: 10 months' credit, 5% per annum off for cash.

W. HULL, Erin, Ont., Auctioneer.

GEO. DAVIS & SONS,

R. R. No. 2, Erin, Ont.

Orchard--Grove flerefords I nave lately made a big importation of Bulls, Heifers and Mature Cows from the leading herds of Illinois. In my herd you now have 25 Bulls to select from; a big range of Helfers and Cows. High-class show and breeding stock a specialty.

L. O. CLIFFORD, Oshawa, Ontario, G.T.R. and C.N.R.



# 15 SHORTHORN BULLS 15

We have been breeding Shorthorns on this farm for over 60 years, and I never saw a better lot of young bulls for sale than I have at the present time. Nearly all of the best Scotch breeding; reds and roans, from 10 to 20 months old. Also a few females and several registered Clyde fillies. Prices within the reach of all. Will quote prices, freight paid to your nearest station.

Claremont Stn., C.P.R., 3 miles. Pickering Stn., G.F.R., 7 miles.

JOHN MILLER, Brougham, Ont.

Son. We have others. Several young bulls are priced reasonably.

Elora G. T. R. and G. P. R.

J. A. WATT, Salem, Ont.

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The Quickest, Simplest Cough Cure

Easily and Cheaply Made at Home. Saves You \$2.

This recipe makes 16 ounces of cough syrupenough to last a family a long time. You couldn't buy as much or as good cough syrup for \$2.50.

Simple as it is, it gives almost instant relief and unally stops the most obstinate cough in 24 hours. This is partly due to the fact that it is slightly laxative, stimulates the appetite and has an excellent tonic effect. It is pleasant to take—children like it. An excellent remedy, too, for whooping cough, croup, sore lungs, asthma, throat troubles, etc.

Mix two cups of granulated sugar with one cup of warm water and stir for two minutes. Put 2½ ounces of Pinex (fifty cents' worth) in a 16-ounce bottle, and add the Sugar Syrup. It keeps perfectly. Take a teaspoonful every one, two or three hours.

hours.

Pine is one of the oldest and best-known remedial agents for the throat membranes. Pinex is the most valuable concentrated compound of Norway white pine extract, and is rich in guiaicol and all the other natural healing elements. Other preparations will not work in this formula.

The prompt results from this recipe have endeared it to thousands of housewives in the United States and Canada, which explains why the plan has been imitated often, but never successfully.

A guaranty of absolute satisfaction, or money promptly refunded, goes with this recipe. Your druggist has Pinex, or will get it for you. If not, aend to The Pinex Co., Toronto, Ont.

# "Go North Young Man"

Because there are millions of acres of agricultural land in Northern Ontario, in some cases free, and in others at 50 cents per acre, excelling in richness any other part of Canada, blessing and waiting to bless the strong, willing sett-

ler, especially the man of some capital. For information as to terms, homestead regulations, special railway rates, etc., write to

> H. A. MACDONNEL Director of Colonization

Toronto.

Ontario. HON. JAS. S. DUFF, Minister of Agriculture

#### ISLAND OATS

If the farmers of the Maritime Provinces, Quebec and Ontario want to make sure of getting the highest possible grade of seed oats for the spring of 1913, apply to us at once. To prevent a repetition of the disaster that befell so many farmers last year by sowing devitalized grain, we have stored at Point Du Chene and Pictou 50,000 bushels ot large, selected, separated white seed oats, true to name and free from noxious weed seeds. If will be the farmers' own fault if they do not procure good seed, as the extra yield of these oats pays twice over the cost of the seed. Our firm name is stencilled on every bag. Do not allow the dealers to give you other than Read's oats for seed JOS READ & CO., Ltd., Summerside, P. E. I.

We are the largest buyers of raw furs in Canada, and we pay the highest cash prices. WRITE AT ONCE FOR PRICE LIST AND OTHER PARTICULARS.

A. & E. PIERCE & CO.

500 St. Paul St., cor. St. Peter, Montreal, P.Q

Our specialty is Canadian Raw Furs. Write for our free price list of Canadian Furs. We pay all mail and express charges. Remit same day as goods received. Hold shipments separate when requested. Prepay charges for returning furs if valuation is not satisfactory. We do not buy from dealers, but from trappers only.

HALLMAN FUR COMPANY TORONTO, ONT. 141 King St. East N. Hallman, Mgr. Four years with John Hallam.

Aberdeen-Angus of Show Form and Quality. For this season my offering in young bulls and heifers, are toppers, every one. Show-ring form and quality, and bred from show winners. T. B. BROAD-FOOT, Fergus, Ont., G. T. R. and C. P. R.

Clover Dell Shorthorns Choice young stock of both sexes.
Du.l-purpose a specialty. Herd
headed by (Imp.) Ivanhoe.
WAKELY, BOLTON, ONT.



GOSSIP.

Attention is directed to the new advertisement of Gunn's Shur-crop Fertilizer, which appears in another column. This firm is also advertising Shur-gain feed for stock and poultry. A firm which has had forty years' experience in this line of work should be able to give the trade what it requires. Look up the advertisement of Gunn's, Pork and Beef Packers, West Toronto, Ont.

SHIRES AND SHORTHORNS.

The most creditable phase of pure-bred live-stock breeding is to be able, through one's own efforts and intimate knowledge of breed characteristics to annually produce animals of a standard high enough to go out and win in the strongest company the country can produce at the big leading shows. This is exactly what John Gardhouse & Sons, of Highfield, Ont., have been doing for many years, at such great shows as Toronto, London, and the Guelph Winter Fair. They breed their winners, and win with their own breeding, and as importers of Shires and Shorthorns, their entries are always at the top, and very many of the tri-colored ribbons have gone their way, particularly in Shires. In this breed of great draft horses, their present, offering to the trade is a most attractive one, without doubt the choicest selection that has graced their stables in nearly half a century's experience. iFirst, is the massive, quality stallion, Tuttlebrook Esquire (imp.), a bay three-year, old, that at the late Guelph Show headed his class of four. He is a typical draft horse with superior qua'ity. Then there is the Guelph first-prize yearling, Gay Prince [725], a son of the great champion, Proportion (imp.), and out of the champion, Holdenby Nicausis (imp.). Other stallions are two bay yearlings, sired by the Guelph champion of 1911, Tuttlebrook King (imp.), one out of the Toronto champion, Tuttlebrook Gem (imp.), the other out of the splendid mare, Bl.ck Bess. They are an extrachoice pair. In mares and filies, they have them from yearings up, imported, Canadian-bred, from imported sires and dams, of a type and quality never excelled, and with the draftiness characteristic of the breed. All of the lot are for sale. The Shorthorns, as a herd, are too well known to need comment. Every year brings out a lot that invariably wins their full share of awards at Toronto and London, and the herd has produced scores of winners at other big shows, in the hands of their owners, both in Canada and the United States. The herd is large, and their breeding the most popular, while the type is strictly modern. In he fers for sale are some remarkably choice, even-fleshed ones, that would be a valuable acquisition to any herd, and in young bulls there is a half-dozen yearlings, sired by the big, thick, mellow stock bull, Prince of Archers (imp.) (a Cruckshank Butterfly), and out of right good dams, carrying such blood as Broadhooks, Miss Ramsdens, Roan Ladys, C. Flowers, Rosebuds, etc. Among them are To-ronto and London winners, and one of them out of last fall's winner at Toronto, London, and the late winter show at Amherst, N. S., in the milking Shorthorn c'ass. They are a proper good lot of young bulls, probably as good a lot as the Messrs. Gardhouse

#### TRADE TOPIC.

ever bred. They are all for sale.

MAPLE LEAF OIL CAKE.-Of all live-stock feeds, oil-cake meal is one of the most wholesome, safest, and best It is also one of the most economical from a chemist's point of view, being very rich in that valuable flesh-forming and milk-making element, protein, also fairly well supplied with oil, while its fibre content is low. The protein is a nitrogenous substance, which means that oil cake, fed to animals, enriches the manure pile. We believe there is no better investment a farmer can make than to supplement his home-grown grains with a ton or two of oil cake The Maple Leaf brand of per annum. The Maple Leaf brand of oil-cake meal is advertised in these columns by the Canadian Linseed Oil Mills, Ltd., of Notre Dame street, East, Montreal. Que., and Sorauren avenue, Toronto. Ont. Write for book, "Facts to Feeders," mentioning this paper.

# IDEAL GREEN

Your dairy equipment is not complete without one

If you haven't a Silo a little investigation will surely convince you that you ought to erect one before another winter. Most likely you have already come to that conclusion.

If you have then you certainly want the Silo that will give you the best service and keep your Silage in the best condition, and that is the Ideal Green Feed Silo. Ideal Green Feed Silos are made from the

very best material, and everyone contemplating the election of a Silo this year will find it to his advantage to get our specifications and prices before contracting for the erection of a Silo. Look into this now while you have the time. Silo Catalogue sent upon request.

DeLaval Dairy Supply Co. Ltd. 173 William St., Montreal. 128 James St., Winnipeg.



Is the most wholly nutritious stock food you can buy. Made of the purest Linseed—by the celebrated Old Patent Process (which makes it keep three or four years, if necessary) proved by feeding tests, both practical and scientific, to be 95% digestible.

Even if LIVINGSTON'S OIL CAKE MEAL costs twice as much as the other foods which do not keep and cannot be half digested, it would pay every farmer and dairyman to get LIVINGSTON'S OIL CAKE MEAL. The cost is only a trifle higher.

LIVINGSTON'S OIL CAKE MEAL is realy cheapest in the end-quickly increasing and improving the milk and healthily FATTENING CATTLE.

Ask your dealer. If he cannot supply you, write us.

THE DOMINION LINSEED OIL CO. LTD.

Manufacturers.

MONTREAL, QUEBEC.



BADEN, ONTARIO.

# SCOTCH. SHORTHORNS

Two high-class imported yearling bulls. Eighteen bull calves, 8 to 14 months old, by the imported sires Bandsman and Village Duke. Forty heifers and young cows of best Scotch families, bred to imported sires. Some Toronto and London prizewinners, both sexes; also some imp. yearling heifers.

MITCHELL BROS.

Burlington, Ontario Farm 1/4-mile from Burlington Junction Station.

Have SHORTHORN Bulls and Heifers, SHROPSHIRE and COTSWOLD Rams and Ewes, CLYDESDALE Fillies and Colts

that are as good as I have ever had, and that I will sell for prices within the reach of all. We have been in the business 75 years, always in the front rank, and propose to keep that position. You cannot afford to buy without writing us for prices. ROBERT MILLER, STOUFFVILLE, ONTARIO

# SHORTHORN

If in need of a bull those that we are offering should interest you. They range from 8 to 14 Lonth old, and are nearly all bred direct from imported stock. We also have females of all ages. Bell ohnore. Burlington Junction, G. T. R. W. G. PETTIT & SONS, Bell phone. Burlington Junction, G. T. R. Freeman, Ontario.



breeding, and of high-class type and condition. I can supply young bulls and helfers-Clarets, Roan Ladys,
Mildreds, Stamfords, etc.

F. W. EWING SAI PM MEADOW LAWN SHORTHORNS of richest and most scotch Roan Ladys, Stamfords, etc. F. W. EWING, SALEM, ONTARIO

1861 Irvine-Side Shorthorns 1912 Offering for sale young bulls and heifers that are the result of over 50 years successful breeding. Pure Scotch, and carrying the best blood of the breed. Few good Oxf. rd Down rams.

John Watt & Son, Salem P. O., Ont. Elora Station, G. T. and C. P. R. D. Shorthorns of breeding and quality—Our offering this year in young bulls and heifers, out of Scotch cow, and sired by our great Mildreds Royal, are put up on show lines, and strictly first-class.

GEO. GIER & SON, Grand Valley, Ont., P.O. and Sta-





Springhurst Shorthorns the late Guelph show, including the champion and grand champion fat headers of this champion-producing breeding. I have now for sale ten young herd headers of this champion-producing breeding. HARRY SMITH, HAY P. O., ONT Exeter Station. Long-distance phone.

Registered Attorney, Dept. E. Temple Building, Ferents. Booklets on request, 20 years' experience.



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# Fleming's Spavin and Ringbone Paste Spavin and Kingbone Paste to remove the Immense and make the terms of sound. Money refunded if it over talk. Easy to use and one to three 6-minute applications cure. Works just as well on Bidebone and Bone Spavin. Before ordering to buying any kind of a remedy for any kind of a blemish, write for a tree copy of Fleming's Vest-Pocket ety-six pages of veterinary information, a special attention to the treatment of mishes. Durably bound, indexed and strated, Make a right beginning by ding for this book. FLEMING BROG., Chemiste, 75 Church Street, Toronto, Ont.

#### NO MORE WET OR COLD FEET!!

With Health Brand Clogs on, the man or woman who works in the wettest, cold-est places always has warm, dry and com-fortable feet. Try a pair yourself this



CANADIAN FELT-LINED CLOG CO. Dept. S, 363 Spadina Ave., Toronto. Canada

#### Shorthorns, Cotswolds. Berkshires

For sale: 10 bulls, from 7 to 10 months; also cows, heifers and heifer calves. Would sell a few young Cotswold ewes. No Berkshires to offer

CHAS. E. BONNYCASTLE P.O. and Station, Campbellford, Ontarlo

# Woodholme Shorthorns



I have for sale a number of choice young bulls, from 8 to 14 months old (pure Scotch); also a number of heifers, 1 to 2 years old, of this level type, and richest breeding. G. M. FORSYTH, North Claremont, Ont.

SPRING VALLEY SHORTHORNS

Herd headed by the two imported bulls, Newton Ringleader, =73783 = and Scottish Pride, =36106 = The females are of the best Scottish families Young stock of both sexes for sale at reasonable rices. Telephone connection.

KYLE BROS. - - Ayr, Ontario.

1854 Mople Lodge Stock Farm 1913 Am offering a very fine lot of young Shorthorn bulls just now. Excellent breeding and most from splendid milking dams. The kind that is needed.

House is one mile from Lucan Crossing, G. T. R. A. W. SMITH, Maple Lodge P.O., Ont.

#### **OAKLAND 50 SHORTHORNS**

Present offering is eight bulls, including our champion stock bull, Scotch Grey 72692—; all roans and reds. Also a goodly number of females, all of the dual-purpose strain. Good cattle and JNO. ELDER & SON, HENSALL, ONTARIO

Fletcher's Shorthorns Our herd of Pure Scotch Shorthorns (Imp.) or direct from imported stock, is headed by the grandly-bred Bruce Mayflower bull, Royal Bruce (Imp.) = 55038 = (89909) 273853. Choice young stock for sale.

GEO. D. FLETCHER. R. R. No. 2, Erin, Ont.

One Shorthorn Bull for sale—Also superior quality and breeding; their dams have been hand milked. Prices right.

STEWART M. GRAHAM, Port Perry, Ont. OWING to his helfers coming of breeding age, will sell or exchange my stock bull, Newton Ideal (imp.). Sure, quiet and active.

J. A. CALDWELL, Box 10, Shanty Bay, Ont. CEDARDALE SHORTHORNS-To make room for newcomers, I am now offering some rare value in Scotch-bred cows and helfers, beautifully bred and high-class in type; also 1 yearling bull.

Dr. T. S. Sproule, Markdale, Ont.



Spruce Lodge Shorthorns & Leicesters Present offering: Young bulls and heifers from grand milking dams. Also a choice lot of Leicester rams and ewe lambs, and ewes of all ages bred to imp. rams. W. A. Douglas, Tuscarora, Ont. **OUESTIONS AND ANSWERS.** Miscellaneous.

#### WEANING FOAL.

What time would it be best to wean a foal which was born on the 10th of September, 1912? R. A. K. Ans.-Some time in February.

#### ALMANAC.

Will you tell me where I can get a 1913 Live-stock Journal Almanac?

Ans.-From the publishers, 8 Breams Bui'dings, Chancery Lane, London, E. C., England

#### FEEDING MILLET.

1. Is Hungarian seed used for any other purpose than for seeding? 2. If used for feeding, what would be A. B. B. the best way?

Ans.-1. Yes. It has a feeding value not quite equal to corn.

2. Grind it, and feed mixed with other grain, as corn or barley, or, better stil, with some feed rich in protein. It should never be fed alone.

#### · OATS FINE - GROUND OR CRUSHED.

Which is the better for cows giving milk, oats ground up fine, or crushed? They are fed on silage.

Ans.-We prefer fine-ground chop, but are not prepared to say how much better it is than grain which is merely crushed. One point in favor of fine grinding is that it is more likely to destroy the viability of weed seeds which may be in the grain.

#### HOLIDAYS-TERMINATION OF CONTRACT.

1. If I hire a man for four or five months, at \$30 per month, can he claim Christmas Day and New Year's Day as a holiday, him doing the chores only in the morning before he left?

2. Can hired man claim wages for the full two months, providing I told him he should quit and go home when he was with me for seven weeks?

I. E. H. Ans .- He can claim these days, subject to doing of regular chores. He was not legally entitled to absent himself from the evening chores without your consent, or some satisfactory arrangement with

2. If the man was hired for the two months, or by the month, and you dismissed him without notice and without clear cause, he can claim payment in full for the two months.

#### COLT SWEATS - MARE KNUCKLES.

1. I have three colts which I keep unning out during fair weather in time, and at night enclose in a box stall. I feed them good hay, oats, bran, and a few turnips. The hair on one of these colts is quite moist and sweaty in the mornings, while the hair on the others is quite dry and natural. Would you please give reason and remedy?

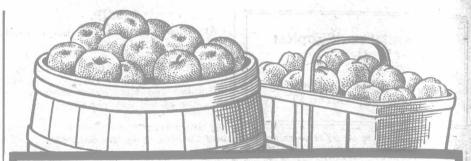
2. I have also a blood mare thirteen years old, which knuckles over at fetlock joint, caused by over driving about two years ago. The cords and joint are somewhat stiff, and she walks on her toe. Could I remedy this by extending the shoe forward of the toe. gradually?

3. She had one colt when about five years old. Do you think she would breed again?

Ans.-1. This colt likely has a thicker coat of hair than his mates. The stall may be warm, and the other colts may tease and chase him around. Give him a separate stall, continue to feed him well, and see that his stable is well ventilated.

2. Shoeing in the manner indicated will not help the trouble. It is doubtful now whether it can be cured. Clip the hair off the parts. Tie so she cannot bite them, and rub well once each day for two days, with a blister composed of 2 drams each of biniodide of mercury and cantharides, mixed with 2 ounces Vaseline. On the third day wash off and apply sweet oil. Oil daily until the scale comes off, when the blister may be repeated if necessary

3. It is possible. Try her, anyway.



Progressive Jones Says:

# "Get More Barrels And More Baskets"

I tell you, friend, that you can make your trees yield you more barrels and baskets of luscious fruit by enriching the soil with the profit-making

I know fruit growers who are many dollars richer from using Harab Fertilizers last year. I know of some who won prizes for their fruit-one being a prize winner at International Apple Growers' Association at Chicago. These prize winners attribute their success to Harab Fertilizers.

Now, friend, if Harab Fertilizers have done so well for other fruit growers, vegetable growers and farmers, isn't it reasonable to expect they will do as well for you? Isn't it worth while trying them for at least half your orchard? Then make a careful count and see how many more barrels and baskets of big, sound fruit you get from the fertilized trees than you do from the unfertilized. If the results don't warrant you using Harab Fertilizers on your whole orchard next year, well, I'll be surprised, very surprised. But I'll bet the surprise will be on the other foot, when you see how many more dollars a small investment in Harab Fertilizers will bring you.



There's an interesting booklet, describing the 14 different Harab Fertilizers-each for a particular pur-The Harris Abbatoir Co. promise me they will send my friends copies without charge. Just write them for a copy to-day.

Yours for more fruit profits Progressive Jones

The Harris Abbatoir Co., Ltd., Toronto 12

# The Auld Herd and Pleasant Valley Shorthorns

Bulls like "Meadow Signet = 86823 = " are not easy to find. We have him and several others for sale. Those looking for bulls should make us a visit or at least write. Prospective buyers met at either Guelph or Rockwood.

A. F. and G. AULD

ONTARIO

Have now a choice lot of young bulls to offer; also with something nice in heifers. Catalogue of herd and list of young animals on application. H. Cargill & Son, Props.,
Cargill, Ont., Bruce Co.



Brampton

EDEN MILLS

Willow Bank Stock Farm—Shorthorn Herd Established 1855. The =60865 =, heads the herd. Young cows and heifers bred to him; also an exceedingly good lot of young bulls on hand, fit for service and at very reasonable prices. Some from imp. dams. JAMES DOUGLAS, Caledonia, Ont.

Jerseys

Bulls fit for service are getting scarce. Just a few left. Year ling heifers in calf are in great demand, 6 for sale; 6 now being bred. Brampton Stockwell the sire. A few good cows and some calves for sale. Production and quality. B. H. BULL & SON, Brampton, Ont.

DON JERSEY

heifers bred to Eminent Royal Fern.

HERD Balaphorene Farm Jerseys Present offerings: Choice bull calves trom three to sixteen months, at very reasonable Offers young bulls and heifers for sale; from three to sixteen months, at very reasons prices for quick sale. JOSEPH SEABROOK Havelock, Ontario.

D. DUNCAN, DON, ONTARIO Phone L.-D. Agincourt. Duncan Stn., C. N. R. Herd-book stock. For further particulars apply to PLEASE MENTION THIS PAPER A. T. SPRINGATE, Breeder and Exporter, Gorey, Jersey, Europe. UNDED 1866

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Present offerings: Choice bull calves very reasonable SEABROOK,

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All pedigree and rticulars apply to

and Exporter,

**ONTARIO** 

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A well-balanced Molasses Feed

**FOR DAIRY CATTLE** Made by

The CHISHOLM MILLING CO., Ltd. Toronto, Ont. Write for prices and particulars.

Maple Grove, Crescent Ridge and Welcome Stock Farms—
Motto: Richest breeding, superior individuals, rorsenting the famous Tidy Abbekerk's, the Mercena's, also granddaughters of Pietertje Henryeld's Count De Kol, and Pontiac Korndyke dother rich producers; 100 head to select from the Lyons Hengerveld and two grandsons of the Lyons Hengerveld and two grandsons of the ROLLER'S Taylatage Canada. H. BOLLERT, Tavistock, Ontario R. R. No. 1.



PURE - BRED REGISTERES Holstein Cattle The most profitable dairy breed, greatest in eise, milk, butter-fat and in vitality. Se m d for PRER tiluetrated descriptive booklets.

BOLSTEIN - FRIESIAN ASSOCIATION, F. L. Houghton, Sec., Box 127, Battleboro, Vt.

Holsteins of Quality

Write us to-day for our proposition, telling you how any good dairyman may own a registered Hel tein bull from a Record-of-Performance cow without investing a cent for him.

MONRO & LAWIESS, "Elmdale Farm"
Thereid, "Intario

The Maples Holsteins I am now offering for sale 10 young bulls, official second backing on both sire's and dam's side. They moved enough for service, and my prices should seen sell them.

WALBURN RIVERS, Foldens, Ont. Phone. Oxford County.

Maple Holstein-Friesians Special offer-Hill from 1 to 15 months old. The growthy kind that will give good service. One from a son of Ever-neen March, and all from Record of Merit dams. Write for particulars. G. W. CLEMONS, St. George, Ont. Bell telephone.

Glenwood Stock Farm
HOLSTEINS

BULL CALVES
fit for service,
out of big milking strains at low ing strains, at low former for quick sale. THOS. B. CARLAW & SON, WARKWORTH, ONT., Campbellford Sta

Ridgedale Holsteins—We have a couple of 3-year-old heifers for sale, one due to calve in February, the other is bred; both are milking now; also a few bull calves for sale, one ower a year old. Shipping stations: Port Perry, G. T. R., and Myrtle, C. P. R., Ontario County.

R. W. WALKER, Utica, Ont.

Hillcrest Ayrshires—At head of herd is Ivanhoe of Tanglewild, a son of the champion Ayrshire cow, Primrose of Tanglewild, R.O.P. test 16,195 lbs. milk and 625.62 lbs. fat; 60 head to select from. Inspection invited.

F. H. HARRIS, Mt. Elgin, Ont.

High-class Ayrshires If you are wanting a richly-bred bull out of a 50-lb. a day and over cow, im-or Canadian-bred dam and sire, write me. Females all ages. Prices are easy.
D. A. MACFARLANE, Kelso, Que.

EAVORED EXECUTION

A young lady attended a fashionable party where a noted pianist was the lion of the evening. After the artist had played several selections, the young lady leaned over to an e'derly gentleman sitting next to her, and queried:

"What do you think of his execution?"
"I favor it," was the response.

WIT ALT WAR

A CENTINE VIOLENIEMYT II

SN A TIE AND G FAN MONTH MONTH TO THE AND THE

Chapped Hands Won't Bother You '

if instead of soap you use SNAP, the original hand cleaner.

SNAP contains no lye or

acids, but glycerine and neutral oils which keep the skin smooth and in splendid condition.

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QUESTIONS AND ANSWERS. Miscellaneous.

GRAPE TRELLIS.

In "The Foundation of American Grape Culture," there is described by the author, the Munson three-wire trough trellis system of grape trellis. Can you tell me whether this is in use to any extent, or approved of by vinegrowers? I have seen none in Western Ontario, and while his system seems to be reasonable, and based on experience, plus common sense, still there may be drawbacks from our point of view (climatic and market), which would make it unsuitable for adoption here. A. F. W.

Ans .- The Munson three - wire trough trellis system of grape pruning is not practiced in Ontario. It is possible, however, that the system might have decided advantages. So far as I know, it has never been tried here.

J. W. CROW. BREACH OF CONTRACT.

If A hired B for five months, at \$20 a month, B stayed 25 days, had 4 lost days. B left of his own accord. When going, said he had no fault to find with the place.

1. Can B collect a month's wages? 2. Can A make B put in full time? 3. Can A make B pay for what

he lost by his leaving? 4. If A does work for B without any bargain, can B collect wages for same?

Ans.-1, 2 and 3. This is one of those cases which the Court would be disposed to settle upon its merits. If B failed to fulfil his engagement, with no good and sufficient reason to excuse him, A would not be required in settling, to pay him pro rata for time put in, but might deduct what was reasonable and fair, having regard to the inconvenience and loss to which A may have been put by the breach of contract.

4. Probably, depending, however, upon the circumstances.

MEASUREMENTS FOR THREE-HORSE LINES,

Kindly answer the measurements of your three-horse lines that appeared some time ago, as I lost the number J. A. with it in.

Ans.-Taking an ordinary pair of lines, punch a few holes from three to five inches back of the cross-line buckles. Make a pair of short checks about ten inches long, each with a buckle on one end. Slip the long end of the main line through this buckle. To the other end attach an extra cross line, 7 feet 4 inches long, with the usual buckle on the rear end. Slip the strap end of the short check through this buckle, and adjust length to suit the team. The extra cross lines pass to the inside bit rings of the two outside horses. When four horses are driven, the extra cross lines pass to the inside bit ring of the second horse from the outside in each case, the outer horse being tied back to the hame of his mate with an ordinary tie strap.

SILO QUESTIONS.

1. How many acres of corn would it take to fill a silo 10 x 25 feet? 2. What is the best variety of corn to

plant? 3. Is it better to sow it in drills with

seeder, or plant it in hills? 4. How many cows would a silo, filled, 10 x 25, feed, feeding each cow 85 lbs. per day, for six months? D. M.

Ans.-1. Such a silo would hold between 35 and 40 tons if well filled. Three or four acress of good hill corn should fill it. Three acres of drilled corn should do it easily, drilled corn being nearly always thicker than hill corn, but not usually so well eared, and often not so well matured.

2. For your section, White Cap Dent should be very suitable. If near the lake, possibly you might grow Early Leaming satisfactorily.

3. We prefer hill-planting, and practice

it exclusively. 4. At this rate of feeding, each cow would require a little over three tons of silage. Your silo would suffice for ten or twelve, depending upon whether there was any waste, and upon the closeness of filling.

# HIGHEST PRICE FOR CREAM

Butter Fat. We buy cream, sweet or sour, of good flavor. We furnish the cans and pay the express charges within a radius of 250 miles of Toronto.

We test and weigh each can on arrival, and send you a statement for same.

We pay all patrons once a week, and the price is increased as the price of butter advances.

Drop us a card, and we shall be pleased to furnish you with any further information you may require.

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AKEVIEW

We have a few bulls left that are ready for service, and must sell them now, as our barns are full. They are sired by Count Hengerveld Fayne De Koi, or out of his daughters by Dutchland Colamba Sir Mona, and all their dams are in the Record of Merit. For immediate sale the prices will be greatly reduced. A post card will bring extended pedigrees by return of mail.

E. F. OSLER,

BRONTE, ONTARIO

OFFERS sons of Pontiac Korndyke 25983, the greatest sire that ever lived and the only bull that ever sired 12

daughters that have made 7-day records above 30 pounds each. Do you want your next bull to be a brother to such cows as Pontiac Lady Korndyke (38.02), Pontiac Pet (37.67), Pontiac Clothilde De Kol 2nd (37.21), Sadie Vale Korndyke (36.20), and eight others above 30 pounds? If you do, write me for price on a son of Pontiac Korndyke. I also have sons of Rag Apple Korndyke and Sir Johanna Colantha Gladi. E. H. DOLLAR, HEUVELTON, NEW YORK. Near Prescott.

Summer Hill Holsteins Would you like your next bull to be from the same sire as the heifer that holds the world's record for yearly work, and the same sire as the Champion Cow of Canada in the seven day work, and the same sire as the Champion four-year-old of Canada in the thirty day work? We have bull of this breeding to offer whose dams have records of over 27 lbs. We have also some extra choice heifers bred to our junior herd bull whose dam has a record of 34.60 lbs. butter in seven days and 1.11 lbs. milk a day. Yorkshires of all ages. D. G. FLATT & SON, R. R. No. 2, Hamilton, Ont

HOLSTEINS AND YORKSHIRES We have at present a number of twoyear-old heifers, some in calf and some just bred, also our stock bull King Peter Teak sired by Peter Teak O. A. C., dam Queen Mabe. Also some sows safe in pig. A. WATSON & SONS, R. R. NO. 1., ST. THOMAS, ONTARIO.



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Herd headed by King Segis Pontiac Lad, whose sire's dam is the champion cow of the world. Sire's sire is the only bull that has sired five three-year-olds. His two great grand sires are the only bulls in the world that have sired two 37-lb. cows. Bulls and bull calves for sale. A. KENNEDY, AYR, ONT.



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Price \$200. Also young females.

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Of choicest imported stock and with imp. sires and dams. I am effering young cows, 3, 4
and 5 years of age; a grand bunch of imp. yearling heifers, and a particularly good pair
of young bulls.
L.-D. 'Phone,

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HECTOR GORDON, Howick, Que. Ayrshires and Yorkshires—We now offer at bargains bull calves dropped in dams with good records, or their daughters either imported or home-bred. Some choice February

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A cent spent now may be the means of saving you three calves next fall. Send your name and address for free sample and circular. It is no trouble, and you can judge them for yourself. Write to-day.

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The oldest established flock in America. Pres-Oxfords and ent offering: a few twoshear and older ewes of Hampshires. both breeds, bred to our imported champion ram.

Also a few nice ewe lambs by imported sires. Prices reasonable. Henry Arkell & Sons, Arkell, Ont. L.-D. phone in house.

In lamb. Ewe lambs. Chester White Boars about five months old. One Holstein bull 12 months old. All of the choicest breeding, and will be sold at a bargain to make room.

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Oxford Down Sheep, Shorthorn Cat-Hogs—Present offering: Lambs of either sex. For prices, etc., write to John Gousins & Sons Buena Vista Farm Harriston, Ont.



Maple Grove Yorkshires & Holsteins Eight young boars fit for use; good,

Eight young boars fit for use; good, long, straight, growthy ones, and young pigs of various ages and both sexes, sired by S. H. Jack (28315) (imp.), for three years champion at Toronto. A few beautiful sows, big enough to breed. One two-year-old Holstein bull—a show animal that has few equals—to be sold very cheaply; out of a heavy milking dam. One yearling Holstein bull, a good one, sired by Dutchland Olantha Sir Abbekerk, and out of a grand young cow; also a heifer calf, just lately dropped, a beautiful, straight calf, out of the same dam; also grade heifer, calves and yearlings. All will be sold at bargain prices.

H. S. McDIARMID, Fingal, Ont. distance shone. Shedden Station.

Large White Vorkshires



Have a choice lot of sows in pig. Boars ready for service and young pigs of both sexes supplied not akin at reasonable pri breeding stock import

ed, or from imported stock from the best British herds. Write or call on H.J.Davis, Woodstock, Ont

C. P. R. and G. T. R. Long-distance 'phone.

Newcastle Tamworths and Shorthorns Present offering, Seven boars from 6 to 10 months Present offering, Seven boars from 6 to 10 months old; boars and sow pigs 6 weeks to 4 months; so we bred and others ready to breed, from such noted stock as Colwill's Choice, Canada's champion boar, 1901, '02 '03 and '05, and Imp. Cholderton Golden Secret. Also a few choice Shorthorn heifers in calf; beef and milk combined. Show stock a specialty Prices right. L. D. 'Phone A. A. COLWILL Newcastle, Ontario. Newcastle, Ontario.

Duroc Jersey Swine CATTLE. Grand stock, either sex, constantly for sale. Price reasonable. MACCAMPBELL & SONS. Northwood Ontario

TAMWORTHS A few sows bred to farrow in February and March; Also choice pigs from three to five months. Bell 'phone, HERBERT GERMAN, St. George, Ont

Cloverdale Berkshires—Present offering: Sows bred and others ready to breed, also younger stock of both sexes. Prices reasonable.

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SWINE OF ALL BREEDS FOR SALE. Yorkshires, Tamworths, Berkshires, Hampshires, Chester Whites, Poland-Chinas, and Duroc-Jerseys. I have constantly on hand both sexes of all ages. Show stock a specialty. Duroc-Jerseys.
sexes of all ages. Show stock a special general special special

Poland-Chinas and Shorthorns — Am offering now 20 good young sows for spring farrow. This herd contains more Toronto winners than all other herds of the breed combined. Also choice young Shorthorns of either sex. Prices easy. GEORGE G. GOULD, Edgar's Mills, Essex Co., Ont.

QUESTIONS AND ANSWERS. Miscellaneous.

VETERINARY TRAINING.

1. Give address of some reliable Veterinary College.

2. Would a home - course education be advisable? Ans.-Ontario Veterinary College, To-

2. It would not be a satisfactory way to become a practical veterinarian.

HENS DIE.

Could you tell me what to do for my hens? Some of them suddenly get lame, but I cannot see what causes it. I have brushed their legs with coal oil, but it does not seem to do them any good. Others seem to have diarrhea, their heads get white, and in a short time they die. They are housed in a new hen-house, with plenty of light and ventilation, with an earth floor, but it is not damp. They are fed whole wheat in the morning, scattered in straw; at noon, a mash of boiled potatoes, and chopped oats, barley and peas, with rolled oats instead of mash sometimes for a change, with the wheat, again about half-past four. They have apple parings, and turnips, raw, nearly every day, but are getting practically no meat. Clear water to drink. L. W. M.

Ans.—This may be tuberculosis, or it may be rheumatism, or diarrhea, caused by improper feeding or housing. Are you sure the house is well ventilated, and still free from drafts? Decrease the roots and green feed, and feed a little meat food, or give skim milk to drink. It might be well to send a bird to the Bacteriological Department of the Ontario Agricultural College for post-mortem examination.

COW FAILS TO CONCEIVE.

One of our best cows fails to get with calf. Can you tell me of anything that will help it, as we do not want to part with her if we can help it? Do you recommend the yeast treatment, and, if so, would you give directions for it? I have seen it in your paper, but we cannot find it, as that number has been destroyed. E. H. S.

Ans.—There are many causes of sterility. If it is due to disease of the ovaries nothing can be done. The most common removable cause is closure of the opening through the neck of the womb. It is also claimed that bacteria in the vagina is a common cause, and that the yeast treatment referred to will have the desired effect. It will do no harm to try it. It consists in pouring a little warm water on an ordinary yeast cake, allowing it to stand for about 24 hours, and then adding water to make a quart, allowing this to stand another 24 hours, and injecting this into the vagina about an hour before service. When the cow shows astrum, have the neck of the womb examined. The operator oils his hand and arm, and inserts hand through vulva and vagina until the fingers meet the neck of the womb. If it be closed, he dilates the passage with his finger, or if necessary, uses a sound, or some instrument (perfectly smooth hardwood has been used) about one-half inch in diameter. Having dilated the opening, inject the solution into the vagina, and breed in about an hour.

GOSSIP.

CANADIAN AYRSHIRE-BREEDERS' ANNUAL MEETING.

The annual meeting of the Canadian Ayrshire-breaders' Association, to receive reports of business done, the election of directors and officers, and for the transaction of new business, will be held in Room No. 6, Monument National, 296 St. Lawrence Boulevard, Montreal, Que. on Wednesday, February 12th, at 10 o'clock a. m. The Directors will meet in the Board Room of the Queen's Hotel (corner Windsor and St. James streets), on Tuesday, February 11th, at 10 a.m. A banquet is being arranged for on the evening of February 12th, in the Queen's Hotel, at which addresses will be given by prominent agriculturists and stock-Those attending the meeting should purchase one-way first-class tickets, and secure from the Agent at starting-point a Standard Convention Railway Certificate.-W. F. Stephen, Secretary-Treasurer.





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This fall I have the best 'ot of lambs I ever bied. I have plenty of show material, bred from the best stock procurable in England. Order early if you want the best, lambs, shearings and ewe law bs. Yorkshires of all ages. J A. Cerswell, Bond Head P. O., Ontario

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# Belmont Shropsnires and Southdowns

I have a grand lot of rams and ewes for sale, both breeds. Anyone wanting a good ram, or a few good breeding ewes, should write me at once and get the first choice.

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ELMHURST LARGE ENGLISH BERKSHIRES Present offering: Select sows. Choice boars ready for service; also younger stock, the get of Dake of Somerset, imp., and out of imported dams. Satisfaction and safe delivery guaranteed. II. M. VANDERLIP. Breeder and Importer, CAINSVILLE P.O. Langford station. Brantford and Hamilton Radial.

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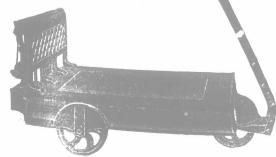
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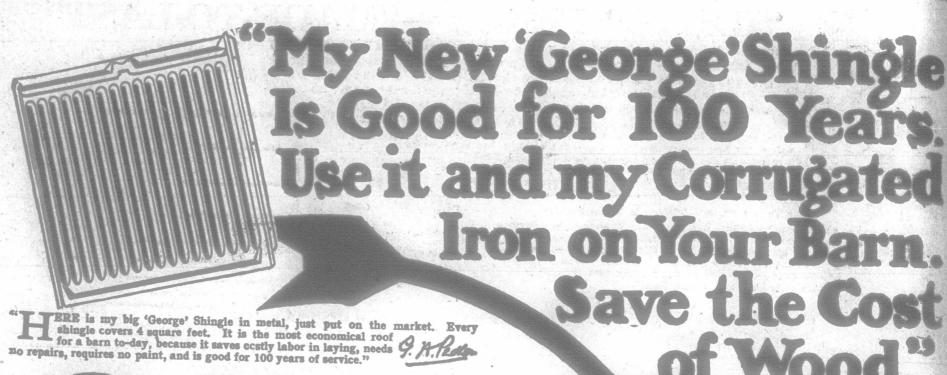
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"My new, big shingle is made for big barn roofs. The average barn is getting bigger every year. By using a large metal shingle on .. big barn roof, the owner saves so much in labor of applying, when compared with wood, that the metal shingle becomes immediately the more economical

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