



# **Royal Purple Stock Specific**

Not a dope, but a pure unadulterated condition powder that can be fed according to directions every day. Will make the animal digest its food properly and secure the greatest good therefrom. There has not been a season in a decade when it will be so absolutely necessary to use condition powders as this coming season on account of the enormous amounts of musty grain and fodder that have been harvested. Unless farmers are extra careful, they will have many animals in bad condition due to coughs, heaves, indigestion, etc. Royal Purple Stock Specific will cause the animal to digest every particle of food and will make impurities pass through without injury. Royal Purple Stock Specific will fatten animals you have never been able to fatten before able to fatten before.

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Last year our horses were troubled greatly with coughs and I used 26 tins of your Cough Specific with excellent results."

used 26 tins of your Cough Specific with excellent results." It will increase the flow of milk from 3 to 5 pounds during the winter. It will help fatten steers a month earlier, thereby saving a month's feed and labor You can raise and fatten pigs and market them a month earlier, saving a month's feed and labor. Malcolm Gray of Komoka, Ont, says: "In regard to the feeding of Royal Purple, I had two lots of hogs. To the first lot I fed Royal Purple Stock Specific and sold them when 6 months old and they averaged 196 pounds each. On the second lot I did not use Royal Purple Stock Specific and at the same age they averaged only 150 pounds. They were both the same averaged only 150 pounds. They were both the same breed and one lot had as good a chance as the other. We have also fed Royal Purple Poultry Specific with excellent results."

Norman C. Charlton, Scott, Sask., says: "I am from Ontario and fed your Royal Purple Stock Specific when in Brownsville. My cows made the largest average and tested 5 pounds over average at C. M. P. at Brownsville. I believe you make the best conditioner on the Market.

Put up in 50c. packages; \$1.50 tins that hold as much as four 50c. packages; \$1.50 tins that hold as much as four 50c. packages, and \$5.00 tins which hold four times as much as the \$1.50 tins. A 50c. package will last an animal 70 days. A \$5.00 tin will last 10 animals nearly three months. The cost to use this condition powder is so small that no farmer can efford to be without it as it will average these these afford to be without it, as it will average less than 1/2c. a day if purchased in large tins.

# **Royal Purple Calf Meal**

You can raise calves on this meal without using milk. It is without doubt the highest grade calf meal on the Canadian market. This year we gave two \$25.00 prizes at the Western Fair, London, Ont. for the two best calves raised entirely on our calf meal. Read what Mr. Lipsit, who won these prizes, has to say about this meal. Mr. Lipsit is probably one of the best-known Holstein cattle men in Canada.

"Straffordville, Ont., Sept. 28, 1918.

"Straffordville, Ont., Sept. 28, 1915. "The W. A. Jenkins Mfg. Co., London, Ont.: Dear Sirs,---Replying to your letter of Sept. 18th, my buil's name is Finderins King May Fayne. I am having printed now an extended pedigree of him, which I will be pleased to forward you, along with his photograph, as soon as completed. "The calves I won your two special prizes on were Forest Ridge Fayne Elite and Forest Ridge Fayne Calamity and. They were both fed regularly on your calif. meal, as well as the calif that on first at the Canadian National Exhibition. Toronto, this year in a class of 33. I also won first and your special prize at the Straffordville Fair here on another cal. "The above I believe to be recommend enough for one breeder, any quite so satisfactory." "Yours truly, L. H. LIPST."

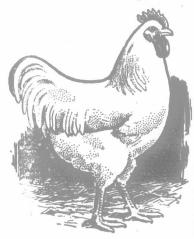
"Yours truly, L. H. LIPSIT."

\$4.00 a cwt. F.O.B. London, Ont.

Mr. Dan McEwan, the veteran horse-trainer, says: "I have used your Stock Specific 8 years and have never had an animal out of condition more than a week in all that time. Your stock conditioner is the best I have ever used, and as for your Cough Powder, I can safely say it will cure any ordinary cough in 4 days.

# **Royal Purple Poultry Specific**

Works entirely on the digestive organs of the poultry. When a bird's gizzard is working properly, it will be healthy, and when healthy will lay just as many eggs in winter as in summer. You can fatten turkeys and other fowl in just one-half the time on the same food when they digest their food properly. Royal Purple Poultry Specific should be used in the food once a day through the fall, winter and spring



seasons. The cost to use it is so small that it will pay for itself 10 times over in actual results. No poultryman can afford to be without this excellent tonic. It is a hen's business to lay. It is our business to make her lay. Put up in 25c. and 50c. packages, \$1.50 and **\$5.00** tins. A 50c. package will last 25 hens 70 days. A \$5.00 tin will last 200 hens for over four months.

# **Royal Purple Cough Cure**

It will cure any ordinary cough in four days and break up and cure distemper in 10 days. The large quantities of musty grains and fodder harvested this year will start more horses coughing than in any year for a decade past. John Cartier, Bothwell, Ont., says: "I have used one tin of Royal Purple Cough Specific and found it excellent for distemper. One of my father's horses had distemper last fall and inside of two weeks the distemper was entirely cured by using two weeks the distemper was entirely cured by using your Royal Purple Cough Specific. I am recom-mending it to my neighbors. Put up in 50c. tins; 60c. by mail.

#### Barrie, April 28th.

Barrie, April 28th. "The W. A. Jenkins Mfg. Co., London, Ont.: Dear Sirs,— In response to your request as to our opinion of 'Royal Purple' brands, beg to say that in two years, or rather two seasons (win-ter), we have sold it, we have found it the best and most satis-factory stock and poultry specific we have ever handled. We have had many testimonials from customers as to its good qualities. One lady customer told us that she used 'Royal Purple' in feeding her turkeys, and the result was that she got the highest price paid on our market for them. The buyer stated they were the best turkeys he had seen." on our market for the seen." Respectfully yours, H. H. OTTON & SON.

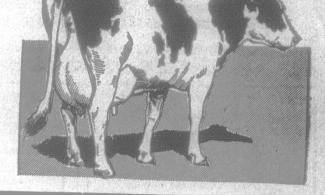
# **Royal Purple Roup Specific**

Is a most excellent remedy and every poultryman should use it in the drinking water during fall, winter and spring months. Read over what Messrs. Mc-Connell & Fergusson have to say about it.

"Gentlemen, —Enclosed you will find a photograph of one of our 'Dul-Mage' White Rocks. Isn't he a big-boned vigorous specimen? About three years ago we had a hen nearly dead with the roup, and after trying a number of remedies, sought the advice of Mr. Wm. McNeill, the well-known poultry judge, and he advised us to kill her at once, as it was impossible to save her life. She was not a valuable hen, and we thought it better to experiment further, as we might have a more valuable bird to treat later on. We got a package of your Roup Cure, and it relieved her at once. At the end of a week's time she was com-pletely cured. We have put a little of your Roup Cure in the water from time to time, and have only had one case of roup in our immense flock in the last three years."

(The bird shown in this advertisement is repro-duced from McConnell & Fergusson's photo.)

Put up in 25c tins; 30c. by mail.



Peace River Crossing, Alta., Oct. 4, 1915.

"The W. A. Jenkins Mfg. Co., London, Ont.: Dear Sirs,----I used your Roup Cure last spring and can safely say that it saved my flock. Previous to my getting the remedy I had lost 37 hens, and after I began using it I only lost three and the entire flock were affected. Many people here have small chicks and they all complain of the roupy condition of their fowl. There seems to be something in the climate or soil that caused the disease:

"Yours very truly, J. W. MARR."

We also manufacture:

Royal Purple Sweat Liniment-8-oz. bottles, 50c.; by mail, 60c.

Royal Purple Gall Cure.—25c. and 50c. packages, 30c. and 60c. by mail.

Royal Purple Disinfectant-25c., 50c. and \$1.

Royal Purple Worm Powder-25c. tins; 30c. by mail.

Royal Purple Lice Killer-25c. and 50c. tins; 30c. and 60c. by mail.

Royal Purple Linseed Meal.

Royal Purple Chick Feed-25c. packages, 100-1b. bags.

We sell only to the trade, but if you cannot get these goods from a merchant in your town, we will send any 25c. tin by mail for 30c. and any 50c. package for 60c Larger packages will be forwarded. by express or freight.

Made in Canada by Canadian capital and labor.

THE W. A. JENKINS MFG. CO., LONDON, ONT.



**C**SLAG

nsumption of BASIC SLAG ur million tons every year; and value in fertilizers obtainable. , and if you have used other st, even with good results, we DNEY BASIC SLAG a trial noney.

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**FEBRUARY 10, 1916** 

**CLOVER SEEDS** 

**Government Standard** 

We guarantee our seeds to suit you

on arrival, or you ship them back to us at our expense. We can

highly recommend the grades marked No. 2 as being exception-ally free of weeds and good for all

**RED CLOVER** 

No. 1 Splendid Sample......\$16.50 No. 2 Good for purity and color ... 15.00

ALSIKE

Bush.

ordinary sowing.

# THE FARMER'S ADVOCATE.

### Simonds Crescent Ground **Cross-Cut Saws**

This saw will cut 10% more lumber, same time and labor being used, than any other brand of Cross-Cut Saws made. This guarantee has stood for thirty years.

There are two reasons for the superiority of the Simonds Saw, grinding and steel.

A saw that does not bind in the kerf cuts easy; a saw that binds is a bother. Crescent grinding insures saws ground so that the teeth are all of even thickness throughout the length of the saw and the blade tapered for clearance to the greatest degree, consistent with a strength of blade which enables the operator to push as well as pull the saw. Crescent grinding is an exclusive process used only on Simond's Cross-Cut Saws. Simonds Canada Saw Company, Limited, Montreal, Que.

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Simonds Steel will take a temper to hold a cutting edge and stay sharp for a longer time than any saw not made of Simonds Steel. There are two reasons why you should buy Simonds Crescent Ground Cross-Cut Saws—Quality and Price.

207

Superior quality makes your cutting as easy as cutting can be.

Superior quanty makes your cutting as easy as cutting can be. The price is moderate for the saw value given. It is about the same as you would pay for an inferior saw, therefore, why not get the best for your money—a saw with the manufacturer's name, "Simonds," on it? It is your guarantee and your protection. The saw illustrated, Simonds Crescent Ground Saw No. 22, is the most satisfactory saw for all usual sawing purposes. Insist on your hardware dealer supplying you with Simond's Saws. Write to the factory for further particulars. Vancouver, B.C. St. John, N.B.

Always buy a saw with a sharp cutting edge-not a soft saw-because the former lasts longer and keeps its edge better.



|   | No. 1 Red Clover\$17.00   |
|---|---|
|   | No. 2 Red Clover  |
|   | No. 1 Alsike 13.00  |
| 1 | No. 2 Alsike  |
|   | No. 1 Alfalfa   |
|   | No. 2. Timothy  |
|   | No. 3 Timothy 5.00<br>White Blossom Sweet Clover 12.50  |
|   | Terms cash with order. Bags<br>extra at 25c. each. On all orders<br>east of Manitoba of \$25 or over we |

THE FARMER'S ADVOCATE

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# **Eighty Maxwells Make Good**

NE day last Autumn, eighty stock Maxwell automobiles left Buffalo, N.Y., for as many points along the Atlantic Coast, from Portland, Me., to Baltimore, Md.

Every item of expense of these eighty Maxwells-for gasoline, oil, tires, and repairs—was carefully checked and recorded.

# **Under Sworn Records**

And the sworn affidavits of these eighty Maxwell drivers created a new record for automobile economy by showing a gasoline consumption as low as 36.85 miles per gallon — an oil consumption as low as 1134 miles per gallon-and no expense for tires or repairs.

# Maxwell-"The Car Complete"

The "first cost" of a Maxwell is your only cost. Nothing you can buy extra will make it a better automobile. It is absolutely complete.

The "after cost" is, without exception, the lowest of any automobile of equal weight. The bona-fide affidavits of these eighty drivers prove it. 70,000 satisfied Maxwell owners back up this proof.

# Every Road a Maxwell Road

The Maxwell has abundance of power and speed. It conquers hills and pulls through the worst of roads in any weather. It has strength and durability to withstand the hardest usage. Yet it is the most economical automobile in the world, to buy and to run.

Write for Illustrated Catalogue

# MAXWELL MOTOR CO. OF CANADA, LTD.

Dept. A. M. WINDSOR, ONTARIO



**ELECTRIC Starter and Electric Lights.** MOTOR-Four-cylinder, L-head type, cast en bloc. Bore 3% in.; stroke 41/2 in. MAGNETO-Simms high tension.

CLUTCH-Cone, faced with multibestos lining, runs in oil.

TRANSMISSION-Selective sliding gear. Three speeds forward and one reverse.

CONTROL-Center left side drive; foot accelerator. 16 in. steering wheel.

WHEEL BASE-103 inches; tread 56 in.; 60 in. optional for the South. by in. optional for the south. WHEELS — Artillery, of best grade hickory; with demountable rims. TIRES— $30x3\frac{1}{2}$  in., front and rear. Famous make of anti-skid tires in rear. SPRINGS—Front, semi-elliptic. 32 in. lond. Rear  $\frac{3}{4}$ -elliptic. lower half 40 in. long. Rear 34-elliptic, lower half 40 in. long

AXLES—Front, drop-forged, I-beam section, complete with spring seats. Rear, floating type.

BRAKES-Internal and external, actuated on 121/2 in. drums on rear wheels. EQUIPMENT-Two electric head lights with dimmer, electric tail light, generwith dimmer, electric tail light, gener-ator, storage battery, electric horn, speedometer, "one-man" mohair top with envelope and quick adjustable storm curtains, double ven tilating rain-vision windshield, improved instrument board with all instruments set flugh board with all instruments set flush, spare tire carrier with extra demount-able rim, jack and tools. All Maxwell Dealers Can Show You Copies of Original Affidavits as Reproduced in this Advertisement

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NADA, LTD.



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# EDITORIAL.

We had April in January. Let us hope that January will not demand its season in April.

The farmer's duty is to take an interest in politics, but not to be married to any political party.

Organization is the strength of many institutions; it could be made the strength of agriculture.

Our first duty is to win the war, and in this, economic production at home must not be lost sight of.

And now the Kaiser proposes to release prisoners and force them to fight in his lines. Such crime and folly!

It now appears that the young men of Britain, by enlisting voluntarily, will make the Compulsory Bill a dead letter.

Sandy Fraser believes that the best way to get rid of bad habits is to form and encourage good habits to take their place.

It is the plain duty of every municipality and every individual to give liberally to the Patriotic Fund and to the Red Cross.

Many a good farmer is not a successful manager. There is room for more training on this phase of agriculture in our agricultural colleges and schools.

Feeders tell us that it requires more care to keep the stock from going "off its feed" in a mild spell than in cold, snappy weather. Possibly a little more exercise would improve their appetites when the weather is mild.

# LONDON, ONTARIO, FEBRUARY 10, 1916.

"Better Stock and More of It".

"Better stock and more of it!" This was the object of all the live-stock meetings held in Toronto last week, and the breeders attending these meetings have done much to place Canadian live-stock husbandry on the high plane it now occupies. All the leading livestock societies and associations represented in the meetings last week had experienced a prosperous year. The demand has been good and stockmen, with the exception of those overloaded with horses, have had a good year. When we stop to think of it, stockmen generally have a good year. We are glad that they were able to report a prosperous year 1915. However, none should feel satisfied unless he has contributed his share toward better stock and more of it. There is never too much of the best; there may be a surplus, at times, of the common and inferior class. Right now we hear a great deal about world shortages in beef and sheep, and about the great live-stock loss of Europe. Are our stockmen prepared or preparing to strengthen Canada's position? Read the reports of the meetings in this issue and be convinced. British stockmen see a boom ahead for good live stock. Canada should do a little "boosting" too, for there are in this country many herds from which the best of foundation stock may be selected. Let every breeder breed the best stock he can and then "boost." You know, the English stock breeder is said to be just beginning to find out that unless he "boosts" a little, Canada, United States, Argentina, New Zealand, etc., are going to get the trade. So much has the English breeder taken this to heart that the leading editorial in a recent issue of the "Live Stock Journal" was headed, "Stands England Where She Did?," and in it the writer made it plain that English stockmen must do a little "boosting" too. It is safe to "boost" when we have something worth while. Canadian stockmen have the goods and are endeavoring to improve them each year. Let us all be alive to conditions, advertise and "boost" the best busin

see how well they had mastered themselves and could think on their feet and say what they thought. We venture to say that in a gathering of all the fathers of the boys not all could have been induced to get up and speak even for the short time of one minute. But father had not the opportunity that his son now has.

1220

At the meeting were a few young men who had had some experience in a literary and debating society and some of these men, we venture to say, are the coming orators of Canada, if they keep up their practice. Every young man should accept every opportunity offered to get upon his feet and speak in public. Each time up makes it easier next time. Never mind the nervousness and possible breakdowns. Some of the best orators the world has ever seen are nervous when delivering their messages, but the nervousness is overcome by confidence, which aids them to think as they go along. They have mastered themselves. We have a good word to say for literary and debating societies, for Farmers' Clubs, for Junior Farmers' Improvement Organizations, and for all societies which train young men, and older men, too, to think and to speak. The young farmer has a duty to himself, to agriculture and to his country. He is the farmer of the future, He is the man who must in the near future take an important part in the affairs of this country. He can and should prepare, and now. We would urge that every farming community organize some sort of society or club for the men and women, particularly the young men and young women, and so arrange meetings that all must take some part. Nothing will do more to promote good feeling, neighborliness and the right community spirit. Nothing would cause the young people to think more and study deeper. Nothing would so prepare our young people for the duties of their older life. Our young people must take more interest in politics-not in partyism, but in the affairs of state which directly affect them in their every-day life. It is their duty to help eliminate the grafter, to prepare to take then places in the affairs of municipality, Province and Dominion. Canada needs young farmers who think and are prepared to vote as they think; not as the party leanings of "father" direct. In local societies, the young people give themselves the necessary start in training. Nothing is more needed; few things are.so invaluable. Begin now. What others have done you can do.



The Hon. Geo. E. Foster hit the mark squarely when in his recent Massey Hall address he advised better organization for recruiting, so that Canada's efficiency in field and factory be not impaired too greatly.

Peter McArthur's advice in last week's issue should be heeded. It is well to know what a patriotic concert is going to cost before staging it. There is little use of putting on such an event if the cost is going to balance the receipts from a big gathering.

Canadians are tired of the talk of shirkers, slackers, etc., which some men past military age seem to like to get out of their systems. Canada has done well. Canada can and will do better. It is a poor way to increase enthusiasm to cast reflections. True, there are slackers, but there are hundreds of workers to every shirker. There is more inspiration in listening to an account of what the workers have accomplished than there is in being bored to death by a long harangue about what has not been done by a few who do not see their duty clearly and act accordingly.

Charges of graft and misappropriation of public funds, hurled back and forth from the opposite political benches in the House of Commons, should not be taken lightly by the voter, even though the charges are sometimes made for political reasons. Such charges should always be investigated and the public should know the truth, and wherever crooked practices are exposed those responsible should suffer, no matter what their politics. Graft and money-grabbing should be driven out of Canada, so that there would never be grounds for accusations such as we have heard in the past.

14

for the general farmer and sell nothing for breeding purposes but that which should do the buyer good.

#### Opportunity and a Responsibility.

One of the drawbacks from which agriculture has suffered in the past has been the lack of men who could go on the public platform and express their ideas clearly, logically, and with such force that listeners were compelled to think hard upon the subject under discussion. True, many of our ablest platform orators were born in the country, but most of them drifted cityward in early life, and there learned by experience to think on their feet. Now, most of Canada's intelligent young farmers and farm boys can, and do, think deeply into the questions of the day. They have clear ideas on many subjects which, in the ordinary conversation between themselves and their fellows, they express without fear or trembling; but, if called upon to express the same ideas from the public platform, the ideas are gone and the only thing the young speaker can think about is how quickly he can get back to his seat. The art of public speaking is not the easiest thing in the world to master, but practice will work wonders. Any young man who is a good farmer, who reads and thinks, can make of himself a public speaker, if he has the opportunity in his early life of getting the necessary practice in addressing meetings of one kind and another. And he can make the opportunity. We recently had the privilege of attending a banquet tendered by a Junior Farmers' Improvement Association, which has been doing a great work, not only in experimentation in farm work, but in practice in public speaking. At that meeting upwards of forty young men, every one a farmer and the son of a farmer, spoke-some for a minute, others for five minutes, and it was a treat to

#### **Be Timely!**

Procrastination is said to be the thief of time, and yet many people go through life showing by their actions that they consider it not wise to do to-day what can conveniently be put off until to-morrow. On some farms ! this doctrine is in evidence, and is responsible for the farmer being always behind with his work, which leads to discouragement, in many cases, and finally to failure. There is a certain time when every operation on the farm should and can be done. To-morrow always brings its own work to require attention.

During the winter months, work is not usually rushing and there is plenty of time to have things ready for the busy days of seeding, when every hour counts. Now is the time to break in the colt that is supposed to do its share of work in the spring. By using it at light work about the place, the shoulders become toughened and the mouth hardened to the bit, thus putting the young animal in condition to stand steady work when the time comes. It seems hard for some farmers to get the seed grain ready before it is required to sow, consequently good seed cannot always be secured, and an inferior sample must be sown, reresulting in a reduced yield at harvest time. Once the land is fit to work, no time should be lost in getting the seed in the ground, as delay means dollars later on.

#### THE FARMER'S ADVOCATE.

### **The Farmer's Advocate** AND HOME MAGAZINE.

210

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION Published weekly by

THE WILLIAM WELD COMPANY (Limited).

JOHN WELD, Manager.

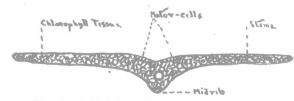
# Agents for "The Farmer's Advocate and Home Journal," Winnipeg, Man.

- THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday. It is impartial and independent of all cliques and parties, handsomely illustrated with original engravings; and fur-nishes the most practical, reliable and profitable informa-tion for farmers, dairymen, gardeners, stockmen and home-makers, of any publication in Canada.
   TERMS OF SUBSCRIPTION.-In Canada, England, Ireland, Sootland, Newioundland and New Zealand, \$1.50 per year, in advance; \$2.00 per year when not paid in advance. United States, \$2.50 per, year; all other countries, 12s; in advance.

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  ADVERTISING RATES.—Single insertion, 25 cents per line, agate. Contract rates furnished on application.
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  THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper ordered to be discontinued.
  REMITTANCES should be made direct to us, either by Money Order, Postal Note, Express Order or Registered Letter, which will be at our risk, When made otherwise we will not be responsible.
- when which will be at our risk. When made otherwise
  we will not be responsible.
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- be Given."
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  10. LETTERS intended for publication should be written on one side of the paper only.
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  12. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical
- P. O. address.
  12. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve "The Farmer's Advocate and Home Magazine," Descriptions of New Grains, Roots or Vegetables not generally known. Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.
  13. ADDRESSES OF CORRESPONDENTS ARE CONSIDERED AS CONFIDENTIAL and will not be forwarded.
  14. ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.
  Address-THE FARMERS' ADVOCATE, or THE WILLIAM WELD COMPANY (Limited), London, Canada.

All through the year there are little things, which, if neglected, mean a loss in hard cash. One rail would repair the fence to-day; to-morrow it may require several rails, besides the aggravation of having the stock tramp through the grain, and a few minutes to-day would destroy a new noxious weed in the field; neglected, its seed may spread over the whole farm and cause a good deal of trouble in its eradication. A weak place in the harness might be fixed with a few or a rivet to-day; if put off for to-morrow, it might break and cause an accident. A worn part on on e of the farm implements could be replaced to-day when the implement is not in use; if left for to-morrow, it might break and cause delay in a busy season. Time is money in every line of business. If the greatest success would be attained on the farm, every part of the farm equipment and the farmer himself must be efficient. Now, before the rush of spring work starts, would be a good time to look over the implements and harness to see if any repairs are required. Have the seed grain in readiness, and the horses in condition to make the most of time, when seeding starts. This spring, with the scarcity of help, the work should be carefully planned that the farmer may make every move count to its utmost.

the leaves has been taken over by the thick, fleshy stems, as in the Cacti. In many of these plants the cuticle of the leaves is very heavy, thus protecting the underlying layers. A very interesting adaptation is found in the grasses of this formation, the leaves of which either fold lengthwise or roll laterally. The way in which these movements are brought about can be understood from a study of Figs. 1 and 2. In Fig. 1 we have a cross-section of a grass leaf which folds. The stomata, as indicated, are on the inner side of the leaf. Near the midrib, on the inner side of the leaf are two sets of cells, one set on each side of the midrib called the motor-cells. When the plant becomes dry these cells lose water and the leaf folds along the midrib, this bringing the inner surfaces of the leaf together and protecting the stomata. In Fig. 2 we have a crosssection of a grass-leaf which rolls up. The stomata are shown in the grooves, and at the bottom of the grooves are the motor-cells, which, when they lose water, cause the sides of the grooves to close together, and consequently the leaf rolls up. As can be seen from the figure, which shows the leaf partially rolled, when the leaf is rolled up, the stomata are in little chambers and are thus protected.



#### Fig. 1-A Folding Grass-leaf Expanded.

So far we have been discussing the conditions of Sand Plants as a whole, and we have seen that the habitat in which they live is unfavorable enough. But some Sand Plants live in an even more severe environment-on shifting sand dunes. In the case of sand dunes not only do we have all the conditions of a very dry substratum, exposure to intense light and to strong winds, but we have an unstable substratum. This substratum is either being eroded from round the roots and rhizomes (root-stocks) of the plants or else piled up around the plants. Which is taking place depends, of course, on whether the plants are growing in a place from which sand is being blown away or in a place to which sand is being transported.



Fig. 2-A Rolling Grass-leaf Partially Rolled Up.

Among the dune plants we find not only the adaptations which we have mentioned above, and which are common to all Sand Plants, but we find the power of rapid vertical elongation of stems, long, rapidly growing rhizomes, and the perennial habit. The first adapta-tion, that of rapid elongation of stems, is very necessary to those dune plants which are growing in places to which sand is being caried; otherwise the plants would soon be buried by the sand. The long rhizomes give the plants a better hold on the loose and shifting substratum. The perennial habit is far more advantageous to dune plants than the annual habit because only at certain times, that is, during a rainy period, are the conditions suitable for the germination of seeds and the subsequent successful growth of the young seedlings. Also the shifting sand makes a very unfavorable bed for the development of seedlings.

FOUNDED 1866

grain to feed. A rule, which appears quite safe, is to feed one quart of oats daily to each 100 pounds of horse, when on ordinary work, the amount of grain to be reduced for the idle horse. Once or twice a week boiled oats, to which has been added a handful of flax seed, may be fed quite profitably. Carrots, turnips or mangels may be fed each day and will assist in keeping the animal's system in good working order. feeder must study and know the animal he is feeding; cater to its likes and dislikes and groom carefully.

#### Lameness in Horses, VIII. SWEENEY.

Sweeney or Shoulder Slip consists in a sprain, followed by atrophy or a wasting away of the muscles of the shoulder, principally those covering the shoulder blade. In severe cases the shoulder joint (the bones of which are held together simply by a capsular ligament, there being no lateral ligaments) appears to slip out and in to a greater or less extent at each step; hence the name, shoulder slip. This lameness is noticed principally in the young horses that are put to work on soft or uneven ground, and especially in young horses that are worked in the furrow to the plow. The horse, not being accustomed to such work, will frequently place the near foot upon the land, while the off foot is placed in the furrow, and this uneven treading tends to sprain the muscles mentioned, and the bones of the joint, being practically held in position by muscles, will, when these muscles have wasted away to a considerable extent, show the slippery action noted.

Symptoms .- Lameness in the early stages is not well marked; in fact, no lameness may be noticed. The earliest symptoms noticeable are heat and swelling of the muscles, which is soon followed by a wasting or shrinking of them. In many cases there being an absence of lameness, the swelling escapes notice. The shoulder blade or scapula is a flat, triangular bone placed upon the ribs and held in place by muscular attachment. On the outer side of the bone is a ridge of bone running from above downwards, almost the whole length of the bone. This ridge is called the spine of the scapula. It divides the scapula into two un-equal parts, about one-third in front of and two-thirds behind it. This spine, while easily felt just underneath the skin, in the healthy animal, is not visible, as the muscles on each side are of sufficient size to make the muscles on each side are of sufficient size to make the surface practically smooth; but when the muscles become atrophied, it is quite visible as a ridge running from above downwards, with a more or less well-marked hollow on each side. The skin appears to the touch to be quite close to the bone, but there is an absence of heat or soreness to pressure. Inflammatory action has become allayed, and as a consequence swelling has subsided, and as a result of the inflammation, the muscles have become atrophied or lessened in bulk. When the muscles passing over the joint have been involved and have become atrophied, the slipping in and out of the joint during progression is quite noticeable, but in a large percentage of cases these muscles are not involved. Lameness is not pronounced except in cases where this slipping is present. Action is defective, but it is not probable that the patient suffers pain. The lessening of muscular fibre renders the patient unable to use the limb properly. The limb is brought forward with a rotary motion of the foot, and more or ess difficulty is experienced in lifting 1001 obstacles. The animal stands sound, and except in the early stages there is no heat or tenderness to pressure. As the disease progresses, the pecularity of action and the wasting of the muscles become more marked, and in advanced cases considerable trouble in progressing is sometimes noticed. Horses affected with sweeney in an ordinary degree progress with considerable ease on the level ground, but on soft or uneven ground the defect in action is usually well marked. Treatment is slow. It requires several months to effect a cure in a well-marked case. Treatment must be directed to cause a reproduction of muscular tissue. The muscular elements are still there, but have become so reduced in size and strength that the muscles are unable to perform their functions. It is better to give the patient absolute rest; but, at all events, he must not be used on soft or uneven ground, and should not be asked to do heavy work on ground of any nature. While a little light work on hard, level ground may be given without danger of serious results, recovery will be quicker if he be given rest. In order to cause a reproduction of the muscular elements, it is necessary to set up, and keep up, a local irritation. Different methods are followed. Some recommend seatons, ex-tending from the top to the bottom of the shrunken muscles both in front of and behind the scapular spine. Some recommend often repeated friction with the hand or a smooth stick. Some recommend the daily application of a strong stimulating liniment and some favor repeated blistering. Probably better results are obtained from blisters than from other modes of treatment. The ordinary paste blister, made of two drams each of biniodide of mercury and catharides, mixed with two ounces vaseline or lard gives good results. The hair should be clipped off the surface of the shrunken muscles with a slight addition all around of the sound muscles and the blister well rubbed in. The effect of a blister depends greatly upon the manner of application. In order to get well-marked results it must be well rubbed in with smart friction. The animal must now be tied so that he cannot reach the blistered surface with his mouth, else he will get his nose, lips and mouth blistered, and possibly tear the skin off the blistered parts. In 24 hours the blister should be again well rubbed in, and in 24 hours longer the parts should be well rubbed with sweet oil or fresh lard. He may now

#### Nature's Diarv

# A. B. KLUGH, M.A.

The plant formation which we have now to consider is that which is made up of the Sand Plants. As was pointed out when dealing with the various habitats, sand is physically dry, consequently we find among these plants adaptations for conserving moisture. One of these adaptations is that of hairy leaves. A hair is a dead structure and is filled with air, which is a poor conductor of heat, so that the surface of the leaf is protected from the full effect of the sun's rays. The hairs also are white and reflect light, so that the intensity of the light reaching the surface of leaf is diminished. The hairs also further guard the leaf against the effect of drying winds. So numerous are the hairs on some of these plants as to give them a woolly appearance. Another adaptation is the possession of thick leaves with layers of water-storage cells. In some species of Sand Plants the reduction of leaves has gone so far that the leaves have completely disappeared, being represented only by spines, while the function of

# THE HORSE.

#### Feeding the Horse.

The past season was a particularly trying one on many of the farm horses. The excessive rains, followed by a few weeks dry weather, caused the plowing to be extremely heavy work, especially in the clay districts. Consequently many horses were greatly reduced in flesh. The comparatively high price of fodder has made some farmers a little careless about putting their horses in good flesh. It may cost a little in time and feed to fit the horses, but once the flesh is put on the horse will eat no more than, if as much as, when in a poor condition. Besides, there is more satisfaction in working a well-fitted horse than a thin one; the horse has more life and does the work easier, and is in condition to command the highest price should a prospective buyer come around. Some horsemen appear to have difficulty in fitting their horses, while others find it no trouble. Possibly the difference is in the care more than the feed. The skill of the feeder enters into the very life of the animal.

The idle horse does not require heavy feeding of grain or hay in order to keep him in condition; in fact, it is believed that many horses are injured by overfeeding with hay. The amount that will be cleaned up in one hour and a half is sufficient. It is no cruelty to the animal to have him stand in the stall for several hours each forenoon and afternoon without having hay to eat. The digestive system requires a rest. The feeder must use his judgment regarding the amount of

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#### **FEBRUARY 10, 1916**

be turned loose into a box stall, and the parts oiled every day until the scale comes off, when he should be tied and the blister again applied as at first. After this the parts should be blistered every 4 or 5 weeks, and between the blisterings (after the scale is off) it is good practice to use friction by hand-rubbing, or the occasional application of a strong liniment. The length of time required to effect a cure varies in different cases. Any length of time, from three or four months to a year, may be necessary, but treatment should be continued until the muscles have regained their normal bulk and tone

WHIP.

# LIVE STOCK.

#### The Angus Breed's Triumphs. Editor THE FARMER'S ADVOCATE:

Editor the ranners of the past season of fat stock shows in Britain have again afforded striking proof of the superiority of the Aberdeen-Angus breed, and crosses of that breed, over all other breeds, as regards the production of the best type of beef cattle. The success with which the breed is employed for crossing purposes, as witness the cross-bred classes at all the important Fat Stock Shows, is leading to a more general use of sires of this breed, for not only are cattle of Aberdeen-Angus characteristics prime favorites for exhibition at the Fat Stock Shows, but in the ordinary cattle markets they proclaim their superiority by the enhanced prices which they command as compared with other breeds.

Of recent years no breed has established such a record at the leading Fat Stock Shows as has the Aberdeen-Angus. Take Smithfield, for instance, than which the world can afford no better test. During the past twenty years the Aberdeen-Angus has won the cham-pionship of that great Fat Stock Show as frequently as all the other breeds of cattle combined. The details of the show as regards the championship for the past twenty years are: No of

|                         | Championships |  |
|-------------------------|---------------|--|
| Aberdeen-Angus          |               |  |
| Hereford<br>Cross-breds |               |  |
|                         |               |  |

This record is excellent by the breed's performances, as judged by the even more critical test of the carcase competition in connection with the London Smithfield Club, where Aberdeen-Angus and crosses of the breed have had a very large measure of success. Over a period of fourteen years the results of the carcase competition as affecting the different breeds for which classes are provided at Smithfield Show are as follows:

| Breed                         | Champion. | Reserve<br>Champion. |
|-------------------------------|-----------|----------------------|
| Sussex.                       | 0         | 1                    |
| Aberdeen-Angus                |           | 5                    |
| Highland.                     | 1         | 1                    |
| Aberdeen-Angus and Shorthorn  | 0         | 1                    |
| Cross.                        |           | 6                    |
| Aberdeen-Angus and Dexter Cro | ss l      | 0                    |

# THE FARMER'S ADVOCATE.

#### To Remove Afterbirth.

A subscriber writes that he has found the following a good remedy for the removal of afterbirth in cows:

Ground anise seed, 2 ozs.; ground grains of paradise, 2 ozs.; sulphur, 4 ozs.; baking or stock molasses, 1 quart. Give as drench, with a little warm water to thin a little. Repeat in 36 hours if necessary. He says he has had cows retain afterbirth for several days, but would always come right when properly cared for with this treatment and be practically none the worse; whereas, when removed by hand, they are often not much better than half what they should have been had things been normal. Have had in hard cases to give as many as four doses, but will generally yield to two doses. Waterloo Co., Ont.

Note.---We pass this on for what it is worth. Our Veterinary Editor has no faith in it, and frankly admits that the Veterinary profession has nothing to recommend for removing the afterbirth excepting by hand. He says the drugs named would have no effect upon the uterus. -EDITOR.

# Sulphur and Salt for Vermin.

A subscriber advises mixing equal parts of sulphur and salt together and keeping it in a box where the sheep have access to it at all times as a remedy for ticks He says it will kill lice on cattle.

#### ANOTHER WRITES AS FOLLOWS:

In reading THE FARMER'S ADVOCATE of January 20th, I notice J. T. enquiring how to kill sheep ticks in winter. I have had good success in mixing sulphur and salt, say two-thirds salt and one-third sulphur,

SUBSCRIBER.

# THE FARM.

211

#### Another Objection to Higher Licenses.

Editor "The Farmer's Advocate":

Permit me to voice my opinion of the probable increase in automobile license fees. heartily agree with your correspondent in recent issue of your most useful farm magazine. Who is the farmer car owner or prospective owner in the Dominion to-day who would not? Such an absurd thing as to even propose an increase in license fees is sufficient to put a keen edge on the temper of the best-natured men. During the past ten years automobile engineers and manufacturers have been hewing the motor car out of the rough, designing and simplifying with in-creasing efforts, till at last, first cost and upkeep have so diminished that the average farmer has come to the conclusion that the motor-car is a good thing in which to invest a little money. Now, since motor-car manufacturers have met with such success that their product has been brought within reach of the farmer, with the result that 1915 was known as the farmer's motor-car year, our government to all appearances, sees fit to impose upon these well.d.served rights and re-erect the barrier between the farmer and the car, the barrier which the motor-car manufacturer has been so successful in tearing down, and ask him to pay steeply for the privilege to make this addition to h s farm equipments; and also for the right to ride over roads that by giving his own time, muscle and money, have been put into such a condition that motor-ing on them has been the hobby of city and townsfolk for the last few years. With the coming up of the self-binder the old

cradle and reapers were laid away, so with the coming of the motorcar, the drivers, buggies, and harness have been laid aside. How many farmers to-day, would be willing to pay ten dol-lars for the privilege of operating a six-foot binder in order to save their crops? With a break in the hay or harvest, or in fact any time of the year, must he pay for the privilege of rushing to town for repairs while the work stands under the threatening weather ? Must he pay for the privilege of taking his produce to market? If so, then he would not be surprised if stock and pro-duce dealers taxed him for the honor of being offered market price for his produce. Nowhere can the automobile be used to better profit and advantage than on the farm. No farm equipment is complete without the car. In it, pleasure and profit are combined. Almost every car purchased by a farmor is purchased to take the place of some old equipment. He has not time to utilize his car as a source of pleasure, and must pay an un-usual fee in order to employ improved methods with regard to carrying on the farm work, and even to take the family to church on Sunday mornings. It is an established fact that the majority of city and townsfolk who operate cars outside the city and town limits are mere pleasure seekers. Their business does not demand that they should ramble aimlessly about the country, and what is more exasperating, they always choose a dry, hot day when their speeding will do the highways most damage, and subject the farmers along the roadside to a first-class dust hath. . Must the man toiling in the hay field foot the same bill as these pleasure seekers, while his car sits in the drive shed instead of being raced along the road, sucking the life-blood out of his statute labor and laying it waste over the fields, choking and blighting his crops? Higher license fees would place in the way an obstacle which thousands of farmers would not feel able to surmount. Now is the time to protest and object in earnest to such a ridiculous scheme. If we must be placed on an even basis

Equally eloquent is the record of the Aberdeen-Angus breed at the Scottish National Fat Stock Show, as is shown by the roll of honor since the shows were instituted nineteen years ago:

No. of Championships Aberdeen-Angus.. Aberdeen-Angus-Shorthorn Crosses. Shorthorn ..

The shows during the 1915 season were again fewer than usual. At Norwich a pure-bred Aberdeen-Angus heifer won the female championship and also the championship of the show, while a pure-bred steer of the breed was reserve for the best steer. At Smithfield Show an Aberdeen-Angus was reserve for the best yearling steer, and a heifer won the cup as the best heifer under two years of age, while another Aberdeen-Angus won the prize as the best steer in the show. A heifer won reserve for the female championship, and the breed had also the reserve for the championship of the show. In the carcase competition, the championship was won by a pure-bred Aberdeen-Angus, while a cross of the breed was reserve.

That the Aberdeen-Angus is the popular cross was shown by the fact that of the fifty-four animals entered in the various classes for cross-breds, Aberdeen-Angus lines of breeding appeared in forty-five cases, the next in order being Shorthorns, which had been used in the breeding of thirty-nine of the animals.

At Aberdeen the championship was won by an Aberdeen-Angus yearling heifer, which had, a couple of days before, won similar honors at Forres, and the reserve champion was another yearling heifer, bred three-parts to Aberdeen-Angus blood. The best steer was a two-year-old blue-grey cross of the breed, and the best butchers' animal was a yearling, also largely bred to Aberdeen-Angus blood. Similarly, at the Scottish National Show at Edinburgh, a two-year-old Aberdeen-Angus heifer won the supreme championship of the show, and a black polled cross of the breed was reserve. The best animal under two years of age and the reserve for that honor were both three-parts Aberdeen-Angus, and the best steer in the show was a cross-bred by an Aberdeen-Angus sire.





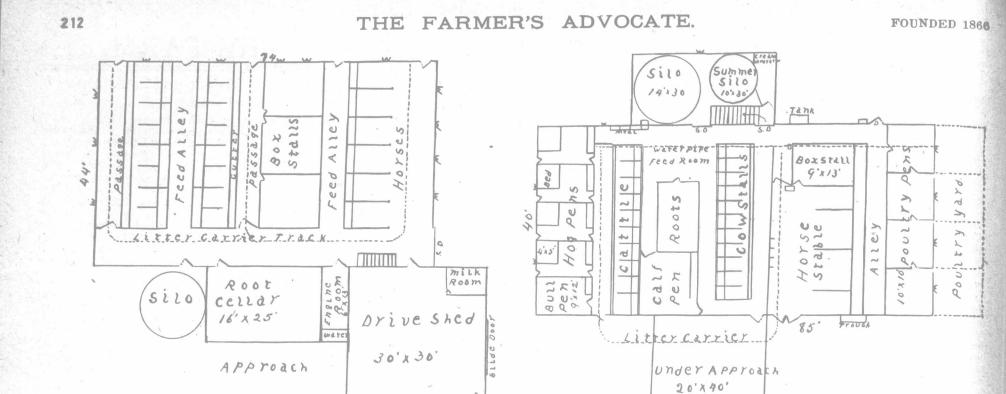
#### Stout Hearts Will Win.

Canadian Farmer-"Good-bye, my boy. We'll do our best here while you strike the freeman's blow."

and keeping it in the pen where they can have access to it at all times. I might also say I tried sulphur alone on a litter of pigs that were very bad with lice this fall. I gave ' .m two handfulls of sulphur in their trough every omer day before putting their regular feed in, for about two weeks, and then we examined them and could find no lice on them at all. I also put a little every other day on the silage when I mix the straw with it for the cattle. Manitoulin District, Ont.

ERNEST A. LETTS.

To the credit of our transportation companies and to the vigilance of the British fleet, be it said, that at time of writing Canadian soldiers, to the number of 121,993, have been transported overseas, and 225,000 have been carried by our railways with only one fatality and that in the latter number,



Plan No. 1-A Wentworth County Barn.

with the city pleasure seekers or those of smaller in the alley, as shown, across this alley. Fresh introduced to the round-mouthed shovel.

Bruce Co., Ont. W. E. JACKSON.

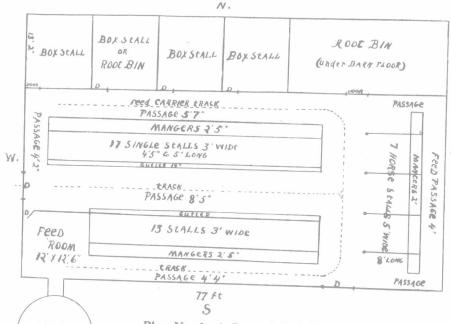
#### A Few Good Barn Plans.

In this issue we are publishing four barn plans, the details in regard to which are fairly well indicated on the plans themselves.

Plan No. 1 shows a Wentworth County barn, owned by Silas Echlin. This barn is a wellequipped structure, 44 by 74 feet in the main, with a root cellar under the barn approach, and a drive shed conveniently situated, with a milkroom in one corner, away from the stable but yet handy to it. Next to the root cellar, and under the barn approach, is an engine room 6 feet by 13 feet with a water tank at one end. Dimensions are placed on the plan, and from it readers may be able to get some ideas for improving their old buildings or for planning new.

Plan No. 2 shows a very complete barn in-ed. It is one submitted to this office a year deed. ago and our subscriber neglected to put his name on it, but we thought it worth using along with the others. The barn is a Glengarry county structure, and some of the particular features to notice are that the litter carrier track passes through a manure cellar under the barn approach. The owner dumps the manure from the carrier directly into the wagon or sleigh, and it is drawn to the field immediately. bin is shown toor the barn floor, where under the roots may be dumped through a trap-door. During the summer the boards from this are taken down, leaving a place for green crops to be stored before feeding. It will be noticed also that two silos are provided, one for summer use and the larger one for winter. The cattle are watered in the stable, but are let out for exercise on favorable days. A tap is provided to shut off the water in the tank, so that cold water may be pumped directly to the tank for milk cans, situated as shown on the plan, just to the right of the silo enclosure. A movable pipe carries the water from the pump situated

towns who can stand and should be subjected to the propsed increase, it is high time they were V on the plan. Large ventilating pipes extend from within three feet of the floor of the stable through the roof. These have side doors opening into the barn, through which bedding comes This barn is worthy of down behind the cattle.



plenty of box-stall room for the average barn, and the cattle stalls permit of tying up thirty head of The feed room and cattle. silo are not very convenient to the root bins, but on the whole Mr. McBain has found this a satisfactory plan for his remodelled barn, 48 by 77 feet.

Plan No. 2-A Glengarry County Barn.

Plan No. 4 shows a very large and well-laid-out barn on the farm of Morris Scovil & Son, Queen's county, New Bruns-wick. This is a very .complete plan, and should interest some of our readers who require a large barn. The barn is equipped with stanchions, manure carriers, etc. It is on a concrete foundation, as shown in the photograph, and the stables hold 27 head of cattle in the stanchions, with a large number of box stalls for calves. A big root cellar is provided. The barn is used particularly for fattening cattle the calves being raised in the box stalls, and fed off as

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Plan No. 3-A Remodelled Barn.

some study, and we hope readers will be able to get some good ideas from it.

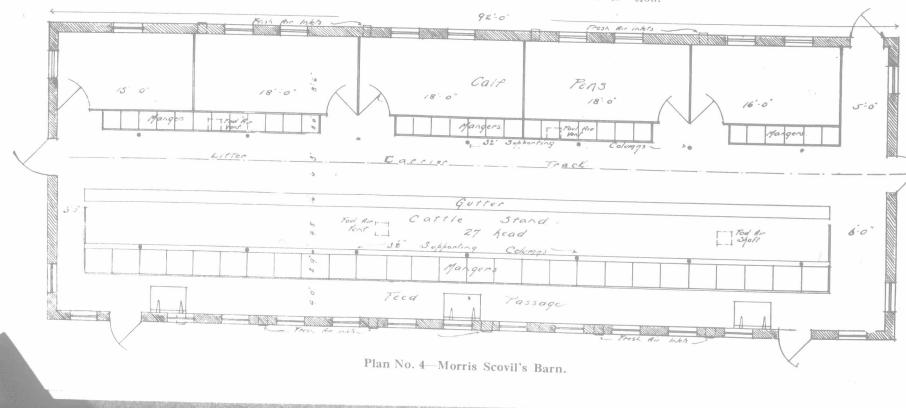
SILO

Plan No. 3 is of a barn owned by J. W. McBain, of Glengarry County, Ontario, and shows what may be accomplished in the making over of an old barn. The root bins, as shown on the plan, are directly underneath the drive floors of the barn, so that the roots may be dumped from a dump box into these. There is

beef in the stanchions the next baby The barn has plenty of light, year. and the King system of ventilation, which was described in a recent issue of this paper, is used throughout.

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We hope these plans will be of some use to our readers in their work in connection with planning the lay-out of their farm stables. Any reader who has a particularly good plan of house or barn is invited to send it to us for publication.



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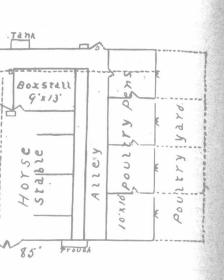
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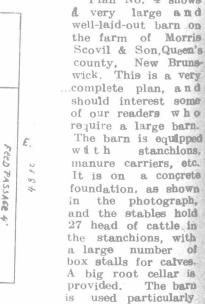
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#### County Barn.

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Plan No. 4 shows



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#### FEBRUARY, 10, 1916

# THE FARMER'S ADVOCATE.

#### What About the Future of the Winter Fair?

Editor "The Farmer's Advocate":

The crowded condition of the last Winter Fair held at Guelph, Ont., was proof positive that it is scarcely possible to expand it any further under the present conditions. Indeed, the exhibit that was enclosed in the buildings at that show would have made a much grander sight if it could have been spread out, saying nothing of the great numbers of horses that were stabled around the city. No doubt something should be done, and that very soon, to accommodate the growing needs of this great educator. Some, no doubt, will say, wait until the war is over and business becomes normal again. I am not so sure that we can afford to relax our energies even that long in a business that plays such an important part in the feeding of the millions, and in meeting the war debt of our land. Possibly property can still be procured for increasing the stable accommodation, but if that were done would things be satisfactory? I submit that they would not. The present arena and seating capacity is far from satisfactory now. What would it be when the Fair expands one-half more, which it will do in a very few years if it is not retarded, judging from the way it has grown in past years.

I think that the Provincial Department of Agriculture has this problem to meet, in the best interests of the Province, and I believe the sooner the better; and I further believe that almost everyone who has the best interests of the olu-cative value of this show at heart, believes it should remain closely allied with the Ontario Agricultural College. My proposition would be, to make the best possible arrangement with the city of Guelph, re the old building, and then erect a building worthy of the industries that it represents, on the College farm, viz., on the northeast corner of the dairy farm, being the nearest point to the city. The very first saving would point to the city. The very first saving would be many thousands of dollars that a suitable site elsewhere would cost, and ground would always be available for extensions, as the expansion of the show demanded. This building could possibly be made a source of revenue in connection with the College if taken in time. It seems to me that the first thought that strikes people who have attended shows at Guelph in the past, is that the College site would be too far from Rajilways, Hotels, etc. To such I would say we must make up our minds that we must leave the pressent site very soon, because it cannot be made adequate. Where is there another site more convenient ? Where can one be supplied more cheaply, within 20 minutes walk of Hotels and Railways? The only other place that seems anxious to secure the show is Toronto, where either site, viz., Queen's Park or the Union Stock Vards, is 30 minutes or more car rile from hotel accommodation. The present car lines to the College could be arranged to handle all freight as well as visitors, and if this matter were taken hold of soof, perhaps the

set it on the barn floor so as to get the elevation, and attached a garden hose with a tap on the end, and while the machine was running we put a full half inch stream into the machine and blew it up with the corn. As a result our silage is coming out in grand condition. After filling the second time we did not stop feeding at all. Of course, for a few days, while the silage was making, it was very warm and a little mouldy, but not a dry mould like the others, and the cattle have eaten all of what was given them without any ill results so far; and now the silage is fine, and if we were putting corn that was the least bit dry into a silo again we would put plenty of water with it. We see no difference in the silage made from dry corn well matured and corn freshly cut and put into the silo before being dried out. The quality of the silage in both cases seems to be about the same.

We are awaiting with a good deal of interest the results of the experiments carried on at Weldwood, regarding the sowing of corn in rows as against planting in hills. Our idea that we have taken so far from your experiment is that we should sow corn that will mature, and sow it thickly in rows so as to get the tonnage, and sow it early so that it will mature, and even though it does not have the ears it will have the same feeding value in a more digestible form than if the ears were in evidence. Is this right? Northumberland Co., Ont. B. ARMSTRONG.

[Note.-We would draw our correspondent's attention to articles in our issue of Jan. 27, in which we attempt to further explain thick-sown By all means plant early-maturing varieties if trying this experiment. We do not claim that the thick-sown is more digestible than the hill-planted, although it may be. Our analysis showed it to be nearly equal to hill-planted in But the thick sown last year feeding value. yielded almost double the weight per acre.-Editor.]



A Big Barn. Barn of Morris Scovil, shown in plan 4, this issue.

# How Was It Done?

left out in some of the figuring. We published the results as a matter of agricultural news as sent out by the Department. If there is any ex-planation required those in charge of the experiments are invited to make it through these columns.-Editor.]

213

#### Never Buy Till Needed.

Editor "The Farmer's Advocate": I take much pleasure from reading the "Editorial" pages of your valuable pages pages of your valuable paper, finding many instructive and timely hints therein, but I take exception to the motto as emphasized by the practical farmer at the Experimental Union, viz., "Never buy anything till you need fit.

Now, for instance, let us take our clover and grass seeds, our seed grain and our seed corn. Must we walt till we need these? If so how can we test our clovers for purity and germina tion ? And we may as well say the same regarding the grain and corn. If we wait till we need these the rush and hustle at seeding time will turn our minds from these all important acts, and the results will probably not be nearly so satisfactory as though the buying had been done at a less busy time. Also, time will not permit of our buying the most economical way, the price will probably be higher, and we run a much poorer chance of getting what we want. The writer makes a practice of having on hand, several months before seeding, all the seed required. If in doubt as to any seed we take advantage of the free service offered from the Seed Laboratory, Ottawa, and have some tested for purity or germination, or both, and such a habit formed will seldom be regretted.

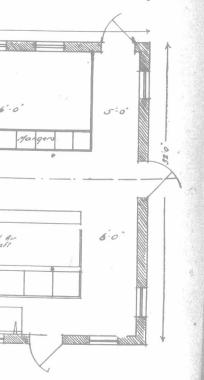
Probably what this practical farmer had in mind when he made this broad statement was in regard to buying farm machinery. May I offer a bit of advice regarding this : Never buy a piece of farm machinery from an agent travelling through the country. When that individual calls let him leave you literature regarding same, prices, terms, etc. If you think you need it, then at your leisure you can look over his pamphlets, compare his machine, prices, etc., with other standard makes, and then buy what you (not any agent) considers best value. Ontario Co., Ont.

H. W.

# A Letter from the Trenches.

"Farmer's Advocate" readers will be interested in the following letter, written by Captain C. F. McEwen, son of Lieut.-Col. Robert McEwen, a prominent live-stock breeder of Middlesex Co., Ont. Captain McEwen is at the front with a cavalry division, and his cleverely-worded raillery at two Canadian papers, one of them "The Farmer's Advocate," shows the spirit of the Canadian lads on the firing line. The same jocular spirit was shown throughout the entire letter imagine we see the boys eagerly grabbing papers from home. The letter was written to Captain McEwen's sister, and after acknowledging the receipt of the two papers mentioned, and besides references to personal matters, and to Captain McEwen's brother, Allan, who is a Major in the 10th Field Battery, also at the front, it reads: "It was interesting to get a Farmer's Advocate again and note that the Advertisement is still running a full inch, having been promoted from among the sheep ads. to those of cattle. By the time this war is over, and business really starts again, Dad will have everyone who reads "The Farmer's Advocate," persuaded that small, earlymaturing sheep are the only kind to make money out of, and after that just suggesting Southdowns will solve the problem. "It is so refreshing to again see the dry humor of the Editorial columns of Canada's leading agricultural journal, I never thought them so humorous before. About December, along would come all kinds of advice about getting ready for Christmas and the winter. During January you keep your stables ventilated and keep putting is more windows, also get up a little firewood for the good wife. In February you start an elaborbook-keeping system, which you let drop about April, attend live-stock courses, and keep poking more light in the barn. During March you always have your memory jogged to get out the harrows, and send them down to the blacksmith to be sharpened; and, you should be collecting a pile of old bricks to rub the dust of the mould board of the plough. You should now start to cut down the heavy winter's reading, and try pitching manure to harden yourself for the spring's work. Also rub a little salt and water on your shoulders to toughen the skin and prevent collar boils in the warm, spring weather. If you find this a success, try a little on your horses. Try and get a little more sunshine in the stables. It is a great help in keeping the old blue-grey in good humor. you placed on the north side of the barn earlier The windows in the winter, when you had forgotten about the sun, you can move around to the south. At Weldwood we found that washing the windows made them cleaner, but as one experiment is

plans will be of some use to our ork in connection with planof their farm stables. Any particularly good plan of house to send it to us for publica-



posed Hydro Radial could be arranged to land both passengers and freight right on the spot. Middlesex Co., Ont. R. H. HARDING.

#### Adds Plenty of Water to Dry Corn. Editor "The Farmer's Advocate":

I thought perhaps the results of our experience in putting corn into silos, under different conditions, might be of interest to some of your readers. We have a large-size silage cutter for our own use in partnership with one of our neighbors, and we filled eight silos besides our own two, and the condition in which the corn was put through the machine varied greatly, but the conditions which we have in mind as widely different, are as follows: The corn for one silo was cut before it was frosted, while it was quite green. The corn for our own silo was slightly frosted, and was advanced to mature stage; in fact, we saved something like three hundred ears for seed, which has been tested and found to show a splendid germinating percentage. In our own case about one-quarter of our corn was stood up in a long stook near the barn, after having filled the silo, and left standing there until two weeks ago, when it was put into the silo one fine day, filling the upper 16 feet. Two other silos were not filled, nor was the corn cut until it was quite badly frosted and was allowed to get quite dry. These two slos were filled with this dry corn about the middle of October, and in filling them the silo owners used some water. They allowed some water to run into the machine and was blown up with the corn, and just here is where we think we learned something. In both cases they allowed about a quarter inch stream to run in with the corn, and before we filled our silo, a couple of weeks ago, we found out that in neither case was there enough water put with the corn, as it came out very moldy and too dry to make good silage. When we started filling our own silo the last time, our corn was just as dry as that of either of these others. We filled our water tank and

Editor "The Farmer's Advocate":

I noticed in a recent issue of your paper that the winner in the seed corn competition that got the Free Course at Guelph, grew 154 bushels of shelled corn to the acre. At same percentage that other competitors who also went to Guelph figured their amount of shelled corn, this young man had 221 bushels of ears, which would mean a large ear of corn on each of four stalks in every hill on the acre. We, who have grown corn in a corn belt, know that it is impossible to be free from a large percentage of barren stalks, and Government experiments show that four, or fewer, stalks will give the larger yield of ears. It looks to me as if some mistake has been made in this case. I would think that good judgment should teach editors and Government officials that a case of this kind should demand their attention. I also notice that he has grown this enormous crop with a cost of \$12.32. may not be familiar with all rules governing this competition, but understand that \$5.00 an acre shall be paid as rent, and 15 cents an hour for man labor, and 10 cents an hour for horse labor. Allowing \$1.75 for plowing an acre, and \$1.75 for fitting it for planting, and 82 cents for planting, leaves \$3.00 for cultivation. This, if correct, is a very large crop to grow without manure or fertilizers. If this corn is to be cut it could not be cut for less than \$2.00, and if it is to be husked and cribbed it could not be done for the whole amount, \$12.32. I have heard several speak of this report in your paper. Perhars you could give your readers a little more information in regard to this acre of corn.

Essex Co., Ont. CECIL STOBBS.

[Note.-We can give no further information on the acre-profit competition. We published results as sent us by those in charge of the competition. and are not responsible for them. Corn was not Corn was not the only crop which seemed to give phenomenal returns. Other crops, as oats and mangels, gave very high returns, according to the report. We are glad practical farmers are questioning these, We for it seems that either the average practical farmer is a poor success or there is something

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#### THE FARMER'S ADVOCATE.

til we have had the experience of more of our readers. The little quotations I have made will whow you the information I got out of the first column of the paper, so you will know I have expanded mentally after going through the whole affair. 1 can remember when I used to read all that good advice and vow that I would start right in to improve conditions. I even once read half way through the reports of Farmers' Insti-tutes for the Province of Ontario ! Do you remember along about June when some of us would scour the country at night to get a skeleton squadron to go to camp, how sweet-tempered some of our dear 'Advocate's articles made me. Some poor hired man who had enjoyed his two weeks at camp would be induced to write about Some sharp-tongued female peace-advocate would be turned loose on the soldier in the next issue, and anyone who was not convinced that eternal peace was assured after she got through, certainly took a very small view of the matter. Of course, anyone can tell from the patriotic tone of the editorials in our paper now that the editors, at least, were of a most war-like nature, but those articles had to be published to show dangerous lethargy into which the country was falling.

hardly a safe guide we would not advise it un-

"And then I have ahead of me a full evening's entertainment in the good old Family Herald. No matter what course in life you take you will find something to interest you in this weekly edition. If there is not a department in the paper just along your line, you can always read someone else's and find it sufficiently interesting. No strong views of any kind are forced on you. You are provided with amusement and entertainment of a kind that you can recommend to your wife's relations.

"Take the 'Practical Agriculturist' portion, with which we are both, of course, most familiar. You get a nice range of topics: artificial fertilizer, growing turnip seed, leaf hoppers (and why they do it) and the Alkali lands of the West. None of these are gone into too deeply, and it just sufts the farmer who knows that he runs into trouble if he goes into the whys and wherefores The city man reads the article and of the case. grasps the whole thing; it tickles him to know that without any actual experience he has as good a grasp of the science of agriculture as have most farmers. In this issue, as is the rule, there is a very plausible article on 'Swiss Farming Methods. It ends this way, 'Swiss thrift, if once established in Canada and the United States, would revolutionize agriculture.' Now, anybody knows that the only things that are really farmed in that bunch of crags are tourists. Anyone who can live on a farm that you have to tie yourself to, to keep from sliding off, has to be thrifty to make a living. I will admit that they must know how to breed goats in that country, and they must be whales to milk. I think climbing around the mountains possibly hardens them down until they give condensed milk that is easily shipped, because Swiss milk chocolate is made everywhere.

"What interest

very much as though it has been playing aeroplane, or at least the engine part of it. I went over to the flying sheds and gently remonstrated with the young officer who had charge of the horse end of the corps, and think conditions will improve. The young chap really meant to do the best he could but he had been in the antillery once, and had the idea that he must be very horse wise.

"There was mighty little truce proclaimed this Christmas in no man's land, and Mr. Bosch may not expect many more until this war is finished. The O. C. being away in England for eight days' leave, has, of course, loaded me down with responsibility. I am able to eat a little bit of soft food, but I do not sleep hardly at all at nights, except from nine until six. Christmas was a particularly busy day. Our men had five different dinners at various places during. the afternoon and evening, and I had the painful duty of going around to see that everyone was in good humor. I started at one o'clock in the afternoon, and wound up at this billet at ten at night. I was unfortunate enough at two places to get there in time to see the eats still going. and had to help out. I can quite understand now what started the rumor that those ships coming across the Channel loaded with Christmas pudding had gone down. Anyway, we had some day; the dinners were in huts, lofts of cow stables, and kitchens of billets, but they tasted equally good everywhere, and there was plenty to I managed to dig up some toys in a town eat. near here, and gave them to the little refugee mother here for her three children. They were of a variety that would amuse a Canadian kid for about half an hour, but . these youngsters thought they were wonderful. Christmas morn-ing these little kids came in and each presented me with a little sprig of holly tled up in a piece of ribbon. Where they got the ribbon I cannot guess, and the smallest kid could hardly toddle, but he got there with his presentation just the same.



FOUNDED 1866

# THE DAIRY.

#### **Cream Substitute for Feeding** Calves.

Whole milk is a balanced ration in itself for all young animals, consequently when a calf is weaned from whole milk and left to subsist on skim-milk, the ration becomes one-sided. In order to have the young animal grow as rapidly as possible, some feed should be substituted for the fat taken from the whole milk. Clover or alfalfa hay makes splendid roughage, and should be supplied the calf as soon as it will commence eat-These feeds are rich in protein, which go ing. to build up the animal body, but they do not tend to balance the ration when skim-milk is fed. Oats form almost a balanced ration, and are considered an excellent feed for any young animal. When it comes to suplying the fat removed from whole milk, a mixture of four pounds rolled oats and corn meal, in equal proportion to one pound of ground flaxseed has given splendid results. With careful attention as to housing, and feeding skim-milk at the proper temperature, in clean utensils, along with the feeds mentioned, calves have been raised more economically and almost as well as when receiving whole milk.

#### Summer Care of a Winning Herd.

In an endeavor to encourage patrons of cheese factories and creameries, to feed and care for their cows, so that they will produce the maximum amount of milk, the Western Ontario Dairymen's Association offers prizes each year to the patrons who furnish the largest amount of milk per cow to any cheese factory in Western Ontario, from the first of May to the thirty-first of October. In the case of the creamery the amount of butter-fat per cow is considered rather than the amount of milk.

In 1915 Jas. Burton & Son, of Sparta, were suc-cessful in winning first place with their herd of 18 grade Shorthorn and Holstein cows. They were able to produce all the roughage and the bulk of the concentrates fed on their 190-acre farm. During the six months. the entire herd averaged 7,175 Ibs. of milk per cow. This is an exceptionally good yield, and goes to show that grade RW03 28 pure-breds, can be bred and fed to produce large quantities of milk. This firm's method of feeding and breeding, may not be according to what some dairymen believe to be correct, but it has given

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how many Canadian farmers want to be thrifty like Swiss or German or Belgian farmers. The next time some well-paid official makes such a hit with the government, that they send him over to study conditions, and he comes back and says be thrifty like a Belgian, he is going to lose one of his most interested listeners. Why not be strong like a horse, contented like a cow, and have healthy appetite like a pig. Don't you ever let anyone tell you that the European farmer is of a higher grade of intelligence than is the Canadian, because they infer, when they say that, that they are better farmers. With the present amount of brains Canadians put in their work when Ontario is as thickly populated as this part of Europe, it will be better cultivated. But when they have been at it as long they will likely get into ruts and make class distinctions, the same as has been done over here. This brings up every man to his job, and enables a man to do his work and use a minimum amount of brains.

"I will be 'busted' if I know why I started to favor you with a light criticism of two of our leading papers. I had a whole lot of things about Christmas that I wanted to tell you in the worst way. I think a fellow gets in a rather critical mood over here sometimes, and is usually waiting for a chance to show what a capable man he would make at someone else's job. He even forgets sometimes that there is not such a wide difference between a critic and a knocker, and that very few of us would qualify for the former.

"I have had a nice, quiet morning bringing home a few heavy-draft remounts. While I was back at the station I incidently looked up some horses we had that have been attached to the flying corps for the use of the officers. one with a beautiful girth gall, and all looking I found a little tough. Our men there complain that when one of those fellows gets on a horse he immediately thinks he has his hands on the levers again, and when the horse comes in it looks

#### Plus Inka Artis.

First-prize senior Holstein bull calf, and champion at the Guelph Winter Fair, 1915, for S. Lemon & Sons, Lynden, Ont.

them results.

spring.

ration.

"Contrast this with the old woman here in the billet whom I tried to sweeten up with a cake and a bottle of champagne. I thought at least she would distribute the cake and uncork the bottle for the family at Christmas, but no, she races it in and sticks it under the bed, where she can keep it, I suppose, as an iron ration. She may have had her reasons, of course, for not eating the cake, but I am not saying whose it was, and, anyway, it did not look to me as though it required so much nerve to tackle it. This, however, is just one of the many little habits one would acquire in being thrifty like a Belgian. Conservation is one of the first principles."

#### Small Silos.

# Editor "The Farmer's Advocate":

"In looking over last week's issue of your paper I noticed an enquiry about small silos, and noticed that you do not advise making one less than eight feet in diameter. Perhaps you are right, but it reminded me that about a year ago I read a report in a Montreal paper, given by a party who claimed to have a silo fortyfour (44) inches in diameter, which was keeping silage perfectly. It do not remember whether or not he said how it was built. I am writing you thinking it might be of interest to find out about it. Am interested in the subject myself. as I am thinking of a small silo to supplement the grass for ten cows.

Our subscriber could do with a silo eight or

Only high-producing cows are kept on this farm; a careful weeding out of unprofitable animals takes place each year, and their places are filled with producers. Mr. Burton & Son do not raise any calves, but depend on buying cows to keep their stables filled. As they seldom have to pay more than ninety dollars for a cow, it is considered cheaper to buy mature cows than raise them. The aim is to have the cows freshen in the A bran mash is usually given for a few days after freshening to bring them to their Bran and corn chop with sugar beets, and all the roughage the cows will eat make up the The cows are always kept in the stable until about the twenty-fourth of May, in order to give the pasture a start so it will last through the season. For the first week or two on pasture the cows are fed grain, but once they get accustomed to grass the grain feed is discon-tinued until about the middle of July or first of August, when two quarts of bran is fed each cow twice a day. About the first of October oat chop is added to the bran, and three quarts fed until the end of the season. No extra green feed is fed during the summer, but an endeavor is made to move the cows from one field to another every few days. This method keeps the pasture fresher than where cows are kept in one field for a considerable length of time. The aim is to have the cows dry up about the first of the

year, and give them six weeks or two months ten feet in diameter for the ten cows. We would usually give a good account of themselves during the cheese-factory season.

Two eral use methods also the chickens the nonseveral h method and cost hator, w teen cent methods of incuba twenty-fi forty cer eggs by bens. weeks, ba month, labor of bator is the requ question of the j Portant.

# DAIRY.

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**FEBRUARY 10, 1916** 

# POULTRY.

#### Incubation and Brooding. By F. N. Marcellus.

Poultry-raising is old-as an art but new as a science, and it is a well-established fact that of the various branches of the work the production of eggs is the most important and also the most profitable. The productive capacity of a hen depends somewhat upon the age of the bird, as the older the bird the less productive she becomes. It is now conclusively proven that on the average the most productive period in a hen's life is during her pullet, or first year of laying. Hence, the necessity of hatching and rearing a sufficient number of pullets each year to replace a part of the old stock, and the more It is not advisable to keep laying the better. hens longer than two years, and one is better, with the possible exception of Leghorns, or breeds of similar type and characteristics.

#### WHEN TO HATCH.

The time at which the hatching of chickens should be done in the spring, is a debatable With the majority of breeders it is felt point. that too early hatching in the spring will result in a more or less serious moult of the pullets in the fall or early winter. This is, no doubt, a serious point. In comparing the production of birds hatched at different dates at the Poultry Department of the Ontario Agricultural College for the past three years, takinto consideration the total eggs laid up to a certain date in the winter, it was found that in practically every case the birds which were hatched earliest in the season obtained a lead which was not overtaken by laterhatched pullets. Comparing the average production up to the end of the year two lots of pullets hatched last spring, one on the 8th of March and the other on the 7th of April, we found there was a difference of sixteen eggs per bird, which on a flock of one hundred birds would mean sixteen hundred eggs. This, at the prices prevailing during the past fall, would make the earlier date of hatching worthy of serious consideration. irrespective of the possibility of a slight moult in the fall. It would certainly appear as if the hatching of such breeds as Plymouth Rocks, Wyandottes, Rhode Island Reds and birds of similar body weight might be profitably carried on as early as the 1st of March while with the light-weight breeds, such as Leghorns, the first half of April will be found sufficiently early.

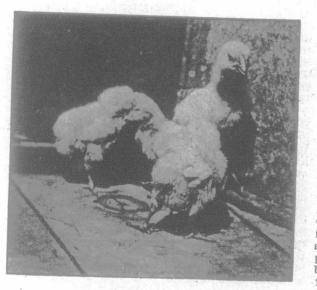
#### SELECTION OF STOCK AND EGGS.

In order that our hatching and rearing results may be satisfactory it is necessary that we give some attention to the selection and care of the parent stock. Select those birds which are especially strong and vigorous. Where egg-production is the object soucht after pay particular attention to the laying qualities of the females, but more particularly the laying qualities of the arentage of the male. The breeding stock should be compelled to exercise freely, both during the breeding season and the winter months previous, receiving an abundant supply of green feed, but must not be fed heavily on mangels and wet mash. The eggs which are used for hatching purposes should be normal in shape, of good color for the breed of birds kept, and weigh at least twentyfour ounces per dozen or two ounces per egg. During the period before setting, the eggs should be kept in a room where the temperature does not fluctuate more than a few degrees, storing eggs small end down and turning daily, but it must always be remembered that the sooner eggs are set after being laid, after the first two or three days, the better will be hatching results secured.

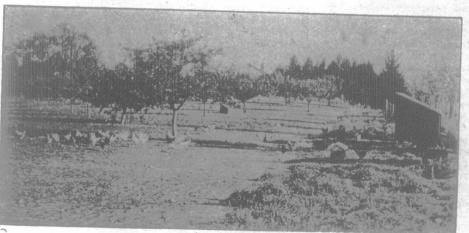
# THE FARMER'S ADVOCATE.

In the selection of hens for hatching purposes, those which are quiet, easy to handle and of the medium-weight breeds, are to be preferred. The light-weight breeds are unreliable, and the heavy breeds are too clumsy and likely to break the eggs.

The nest for a hatching hen should be about sixteen inches square and eight inches deep, and so located that the other birds will not be able to get on the nest. It is never advisable to set birds in the pen with the laying hens. The nest should either be placed on the ground or a piece of sod the size of the nest inverted in the bottom, slightly hollowed out and the nesting material, preferably oat straw or chaff, placed on the sod. During the early part of the season eleven to thirteen eggs may be placed under the hen, while in the latter part of the season, when the weather becomes warmer, fifteen to eighteen may be given to each hen, depending somewhat on the size of the bird.



Strong and Weakly Chicks.



cleaned, but the eggs should not be washed if it can possibly be avoided.

It would not be possible nor advisable to go into the details of the operation of an incubator, for the reason that different makes of machines are differently operated. All makes of machines are first operated and tested out by experts before being placed on the market, and the instructions which are sent out with each macnine will be found the best guide for operating that particular machine. The machine should be operated for several days by a beginner before putting the eggs in place. After the third day from putting eggs in they should be turned or shunded twice every day, but when filling and trimming lamp the eggs should be turned first so as to be certain that no oil comes in contact with them. On the ninth day the first tost is made, when the infertilities and dead germs, are removed. The latter are distinguishable as small, dark spots from which the blood lines have disappeared, and also by a circular red line which is also termed a blood-ring. A second test may be made about the sixteenth day, and the balance of the dead germs removed. On the eighteenth day the eggs are turned for the last time. and the machine should then be closed and left closed until the hatch is over. If the chicks start panting the ventilators or door of the machine should be opened sufficiently to supply air.

#### HOW TO BROOD.

Artificial and natural methods of brooding are both used as in the case of incubation. It is usually found best where either method of incubation is used to brood the chicks by the same method. Regardless of which method is used. the young chicks should not receive any feed until they are forty-eight hours old, and better sixty or even seventy-two. The young chick, sixty or even seventy-two. The young chick, when it emerges from the shell, has sufficient food in the digestive tract to keep it alive for at least five days, and feeding should not take place until the greater part of this supply has been assimilated. During the period before feed-ing starts, however, the young chicks should re-ceive plenty of fresh drinking water and some coarse sand or fine frit. They are, of course, with the mother or in

They are, of course, with the mother or in the brooder at this time, the brooder having been running previously at a temperature about ninety-nine degrees under the hover.

#### EARLY FEEDING.

The first feed of the young chicks may consist of stale bread slightly moistened in milk or rolled oats. mixed with hard-boiled eggs (boiled for thirty minutes) shell and contents. This is fed in small quantity and

215



bred and fed to produce large quan-tities of milk. This firm's method of feeding and breeding, may not be according to what some dairymen believe to be correct, but it has given

cows are kept on this out of unprofitable animals and their places are filled ton & Son do not raise any buying cows to keep their seldom have to pay more r a cow, it is considered re cows than raise them. the cows freshen in the is usually given for a few to bring them to their chop with sugar beets, and ows will eat make up the always kept in the stable fourth of May, in order a start so it will last For the first week or two re fed grain, but once they s the grain feed is disconmiddle of July or first of ts of bran is fed each cow the first of October oat ran, and three quarts fed son. No extra green feed ner, but an endeavor is ws from one field to an-This method keeps the ere cows are kept in one length of time. The aim up about the first of the weeks or two months luring February or March ount of themselves during

#### HOW TO HATCH.

Two common methods of hatching are in general use to-day, i. e., natural and artificial. Both methods have their commendable features, and also their faults. Where one desires to hatch chickens early in the spring, or where keeping the non-setting varieties, or desire to hatch several hundreds or thousands, then the artificial method becomes a necessity. As to the labor and cost apart from the initial cost of the incuhator, which amounts to from twelve to seventeen cents per egg capacity, the cost of the two methods does not differ greatly. The fuel cost of incubating one hundred eggs with kerosene at twenty-five cents per gallon is, approximately, forty cents. To incubate the same number of eggs by natural means will require six or seven The cost of feeding six hens for three weeks, based on arbitary figures of ten cents per month, which is low, is forty-five cents. The labor of ciring for one hundred beggs in an incubator is considerably less than that of caring for the required number of hens. There is also the question of the freedom from vermin in the case of the incubator-hatched chickens which is im-





#### Raising Chickens in an Orchard.

One of the greatest objections to hatching with hens is the difficulty encountered with vermin from the hens getting on the young chicks. It is, therefore, necessary to treat the hen for body lice by dusting with insect powder. This powder may be made at home by mixing together one part carbolic acid (90% to 95% pure) with four parts of gasoline, and when thoroughly mixed adding sufficient plaster of Paris to take up the moisture. Allow this to stand for a short time until the gasoline evaporates, when it can be readily dusted into the birds. Apply this material around the vent and under the wings just before setting the hen, and again on the sixteenth day of the hatching period, but not later as it may cause blindness in the young chicks. Supply the hen with plenty of fresh drinking water, a dust bath and whole grain, but under no condition give feed which might have a loosening or laxative effect on the howels. Should the nests become fouled they should be

at frequent intervals during the day, pre-ferably five times per day for the first three

weeks. Fresh drinking water should be before the young chicks at all times. It is possible and advisable after the first few feeds of the above feeds to feed a small quantity of chick food in the litter of the brooder so as to start the young chicks scratching. The chick food may consist of any of the commercial chick foods or be made up of cracked wheat, thirty-five pounds; finely-cracked corn, thirty pounds; pinhead oatmeal, thirty pounds; and chick grit, five pounds. In many cases the commercial chick food will be found cheaper than home-mixed. About the third week gradually replace the rolled oats or bread with a mash composed of one nundred pounds wheat bran, one hundred pounds wheat middlings, two hundred pounds corn meal, fifty pounds fine beef scrap, and thirty pounds bone meal. This is fed in a slightly moist, crumbly condition. In case sour skim-milk or buttermilk is available for drink then it should be used as such; also to moisten mash in which case the beef scrap would be reduced to twentyfive pounds. The number of feeds per day should be reduced to four times in the third week, and to three times in the fifth week. Whole grain should replace the chick food as soon as the chicks are large enough to eat it. The chicks should be gradually accustomed to going without extra heat as soon as they show much feather growth on their bodies. Care must be exercised not to overheat the chicks at any time, nor to chill them, as either is most surely fatal. In the case of hen-brooded chicks where they become infested with lice the top of the head should be greased with lard.

Poultry-keeping is a business of details, and it is only by close attention to the various little things that we may hope for success. It is a business demanding long hours of labor and seven days a week, and it is usually due to lack of staying qualities that some people who start in the business give it up. It is, however, one

#### THE FARMER'S ADVOCATE.

branch of the farm which pays well under proper care and direction, and with the large markets, which are opening up to this country at present and still greater after the war, it will certainly prove highly profitable to those why stay with the business and hatch and rear more and better birds to help supply the demand.

# HORTICULTURE. Concise Answers to Questions Re

#### Fruit. At the recent convention of the Ontario Fruit rowers' Association held in Toronto a number

Growers' Association, held in Toronto, a number of questions regarding tender fruits and apples were placed on the program. These were answered by individuals who had had experience in the field of work regarding which each question was asked. We are reproducing here a number of these questions, also the answers, and the names of the individuals who answered them.

Would barrelled apples sell for more money if they were machine graded ?—"Restaurants and such want large apples, for they can be peeled speedily. Many want smaller apples suitable for dessert purposes. All No. 1 apples in the same barrel would vary in size from 2% to 3% inches. The small apples in a barrel would, with large ones, look like culls. However, the small apples are quite as suitable for certain purposes as the large ones, and would sell for as much if barrelled by themselves. One of the largest dealers in Toronto said he could sell apples for more money if they were graded, probably in three sizes. It is now possible to purchase first-class grading machines that will cost little money and bruise no apples."—W. F. Kydd.

What prospects have the tender fruit growers for disposing of more of their low-grade fruit in the form of by-products ?-"'Owing to the falling off in wine making, which absorbed many varieties of grapes, and the increase in grape juice manufacture, which consumes only the best Concords, the prospects are : Red varieties, Wordens, some Concords and other varieties, will be sold fresh on the market. The best Concords will be used in the manufacture of grape juice. Culls consisting of small and unevenly ripened bunches of all varieties, may be used for jelly making. With regard to peaches, the low grades consist of under-sized specimens, over-ripe fruit of all sizes, split peaches, gum spots and scabby peaches. Under-sized, gummy and scabby peaches of fair texture may be used for canning, being sliced and put up in water for ple-making purposes. Over-ripe fruit may be used best for jam pur-There are possibilities for this quality of poses. jam for war purposes. The prospects for evaporating peaches are promising but untried."-P. E. Culverhouse.

Of what value are later sprayings in seasons like 1915 ?-"One application put on about the middle of July would increase the percentage of clean apples 40 per cent. in a season like 1915. If many growers, during the past season, had put an application of spray material about the middle of July, the yould have had 40 per cent more apples clean. During a season such as 1915, it was possible to grow clean apples."-W. F. Kydd. Is it necessary to cultivate the entire surface of the ground under the trees in an apple orchard ?- \* A few of the most successful apple growers are not cultivating the ground underneath the trees. It is considered 'unnecessary to cultivate closer than four or five feet from the trunk of the tree. There are no feeding roots so close to the tree, so there would be no benefit accrued from cultivating that ground. These remarks apply, of course, to bearing orchards. Young trees should be started by cultivation."-W. F. Kydd. What have been the results to date from the irrigation system at the Vineland Experiment Station ?- "In strawberries, there was an increase in returns from the irrigated land over the nonirrigated land amounting to \$103.00 per acre. The cost of operating the system, interest on investment, depreciation, etc., amounted to \$37.00 per acre, leaving a profit of \$66.00 per acre from the irrigated field more than from the non-irri-Ten and three-tenths inches of water gated, were applied during the months of May, June and Considerable loss resulted from irrigating raspherries, but asparagus, celery, beets and carrots, gave profitable returns for the water applied."-O. J. Robb. Are we cultivating our orchards too late in the summer ?-- '. Growers must judge for themselves at picking time whether they have made a practice of cultivating too late in the summer or not. Some soils will stand more cultivation than others. In Eastern Ontario, for instance, east of Trenton the climate warrants only a short period of cultivation in the spring. The land should be well worked up in the orchard, and a cover crop sown. East of Toronto, the middle of June would probably be the proper time to

cease cultivation in orchards. There are few places in the province where it is wise to cultivate any later than the first of July. The season, however, has very much to do with cultivating orchards. During a season with abundant rain, such as in 1915, it is not necessary to cultivate as much as in a dry season."—L. Caesar. Should the grower be compelled to put his name on open as well as closed packages ?— 'Nine violations out of ten are found where packages are stamped with the packer's number, instead of his name. All met however who use numbers

his name. All men, however, who use numbers are not bad packers. The name is a guarantee of quality and a safeguard to the consumer."— P. J. Carey.

# Nova Scotia Farmers Hold a Good Meeting.

FARM BULLETIN.

Back again in Windsor, the place where we always get a hearty welcome. The meetings of the Nova Scotia Farmers' Association, opened in the opera house on Tuesday evening, Jan. 27. The evening was spent very pleasantly, by short congratulatory and welcoming addresses, interspersed with music by local artists.

G. C. Cunningham, Plant Pathologist for New Brunswick, gave a very practical talk on potato growing. It is becoming more difficult each year to grow a good crop of fine, smooth tubers. The average of New Brunswick was 117 bushels per acre, while three hundred and fifty was only a good yield. The farmer who wants heavy yields must be very careful in the selection of his seed, which must come from record crops. There are two methods of selection of seed-that of a uniform, medium-sized potato from the bin after they have been stored, and what is better, selection from the field. Mark the most vigorous hills, and keep the potatoes from these hills separate when digging. In this manner we get parent seed of great vitality and strong growth. Experiments had shown that seed from strong hills had given from 150 to 200 bushels per acre increase over seed from weak plants; also seed from different parts of the country varied greatly in yield. Late Blight could be pretty well controlled by the use of Bordeaux mixture-4 lbs. bluestone to 40 gallons of water. An experiment in which one part of a field was thoroughly sprayed with Bordeaux, and an adjoining part left unsprayed, showed an increase of 220 bushels per acre in favor of the sprayed part. disease called Mosaic was shown by a light, yel-low, mottled and puckered state of the leaves. This disease, under ordinary conditions, will decrease the yield from 8 to 10 per cent. Blackleg is a disease that rots and discolors the stalk of the growing plant, wilting and turning the leaves light color. The stalk often becomes decayed and putrid with mould. The tubers stop growing, and the hill should be removed and Treatment consists in soaking seed which is thought to be infected, with formaldehyde 1 pint to 30 gallons water. Also, a long rotation is recomm

ful work is rather beneficial than otherwise. The young foal should not be allowed to run in the field when the mare is working, but kept in a box stall and taught to stand tied as early as possible. The foal should be weaned at about five months of age, and at this time the colt should be fed carefully and well, as this is the most critical period of his life. The colt's feet should constantly be cared for, and by paring kept in good shape. The prices of horses, while now rather unsatisfactory, will undoubtedly be better inside of a year. Prices are very high now in the warring countries, and buying will probably soon begin in Canada.

In the discussion which followed several showed splendid results from the use of skimmilk for weanlings.

Professor Trueman, of the Agricultural College, gave results on a college farm of the use of ground limestone on different crops and soils. While the difference between the limed and unlimed plots, where oats was the crop grown, was not especially marked; the clover catch and the following crop of clover hay showed very plainly in favor of the application of lime, there being an increase of over a ton per acre on the limed plots. Some parts of the field under experiment, however, did not show any appreciable difference, the reason being that these parts were already in good fertility and were not affected by the treatment. The best results from the use of limestone are found to be on reasonably poor and acid soils when a dressing of manure or fertilizer is used with the lime. The question of whether or not its use is profitable depends largely on the price and the cost of delivering it to the farm. In many cases it may be profitable to use even when costing from four to five dollars a ton delivered. In some sections of the United States where large quantities are used in small districts, and the railways haul it at specially low freight rates, the farmers get it delivered for (\$2) two dollars per ton and less. An application of four tons per acre is supposed to be effective for four or five years.

Professor Cunningham said that club root was a disease peculiar to turnips and cabbage, and in fact, all plants of the mustard family. caused by organisms in the soil, and is difficult of eradication, being spread by affected seed, by removal of the soil to different places through harrowing and cultivation, through the use of manure from cattle which have been fed plants with club roots, and also from seedling plants taken from affected soil. When the soil has once become infected it is better not to raise any cabbage or turnips on it for a few years, and in the meantime to treat it with limestone, and practice a rotation of crops, clear the soil of all weeds belonging to the mustard family, and make an application of five tons of limestone per acre. With this treatment club root germs should entirely disappear from the soil inside of three

A discussion of some three hours took place on the benefits that might be derived from cooperative associations for farmers throughout the Province, made up of different units, or local

216

FOUNDED 1866

presence of fungus in the soil, and is increased by the addition of lime, barnyard manure or ashes, and is a difficult disease to cope with on account of the above means of spread. Treat seed thoroughly with formaldehyde, as in the case of blackleg, soaking the potatoes about two days before cutting and planting. The discussion of this paper brought out the facts: that slightly immature seed was often best for planting; if whole seed is used, the larger the better; and if seed is cut very long before planting it is well to coat it with lime or earth to keep it from drying out.

Two half days were devoted almost entirely to business. In fact, there was more business and less educational work done than at any previous convention.

The Director's Report showed increased activity in almost all lines or departments of agriculture. The call for greater production had met with a splendid response, and in spite of many drawbacks, due to the war and weather, the production of farms showed up well as compared with other years. The New Science Building erected at a cost of one hundred thousand dollars is a costly monument. The Women's Institutes, under the energetic superintendence of Miss Jennie Fraser, have done splendid work, having raised seven thousand dollars for patriotic purposes. Agricultural Societies and County Associations are holding their own and improving stock and farming methods.

In a popular talk on horses, Dr. Sinclair recommended great care in breeding, that brood mares he the best available, and that stalltons be free from transmissible weaknesses or diseases. The conformation of horses, in many cases, predisposed them to the different diseases, such as a contracted jaw to roaring, a bent hock to curb, or an upright pastern to navicular disease. These conformations were to be shunned in choosing a sire. When the mare is safe in foal caresocieties, governed and operated by a central union, which would be able to buy all necessities of the farm in large quantities and at greatly reduced prices, or sell the farmer's produce in the best markets to the best advantage. Some favored the amalgamation and incorporation of the County Farmers' Associations, and Agricultural Societies in each county. Others thought it better to form units altogether independent of these. A. E. McMann, Manager of the United Fruit Companies, and A. E. Adams, Secretary of the same, gave figures to show the saving to the farmers which had been effected through that organization.

Prof. Trueman gave a very practical talk on feeding the dairy cow, and distributed a chart showing the comparative value of feeds grown on the average farm in the Province. To improve the ordinary farm he recommended a short rotation with the growth of clover hay and silage crops consisting of oats, peas and vetches.

Officers elected: President, R. J. Messenger, Lawrencetown, N. S.; First Vice-Pres., William Murray, Pictou, N. S.; Second Vice-Pres., S: A. Freeman, Amherst; Commissioners to the exhibition at Halifax, F. W. Foster, Kingston; H. S.

Resolutions: That we earnestly recommend the elimination of the so-called fakir row in connection with the exhibition at Halifax.

That steps be taken to form co-operative societies for the buying and selling of farm produce and other necessities.

That legislation be enacted to prevent the use for public service of grade or mongrel bulls within certain limits where pure-bred bulls are kept

That transportation companies be approached with a view of obtaining greatly reduced freight rates on ground limestone.

That the government be asked to remove the duty on all fertilizers.

That we ask for more stringent temperance legislation. R. J. M.

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FEBRUARY 10, 1916

#### 500 Fairs and Exhibitions Delegates in Session. From every part of the Province representatives of agricultural societies gathered at the annual convention of the Ontario Association of Fairs and Exhibitions, held in the Canadian Foresters' Hall, Toronto, Feb. 1 and 2. The past year satisfactory crops were harvested by the farmer, and the delegates were optimistic regarding the outlook for agricultultural work in the future. Reports showed that Agricultural Associations were doing a great work in encouraging, the growing of cleaner and larger crops, as well as breeding, feeding and fitting a higher quality of live stock. With the con-

ture it was the opinion of those present that even more would be accomplished in the future. The President of the Association, J. C. Stuart, Osgoode Station, in his opening remarks expressed satisfaction with the success attained by the various fairs and exhibitions throughout the Province. He believed the expert judge system as worked out, for supplying judges to the fair boards, was the best in the land. Some dissatisfaction was heard at times regarding the work of the judges sent out by the Department, and Mr. Stuart criticized the directors of the various fair boards for not reporting the failure of any judge to do his work satisfactorily. Any judge who failed to give satisfaction is not sent out the following year. It was believed that unfair judging was a means of keeping exhibitors away from the fair, and no fair could be held without the exhibitor; attractions were not enough in themselves. The President saw in the School Fair movement a means of education for the boys and girls that would be of great assistance in making the fall fairs of the future even a greater success than at present. The opinion was expressed that it would be better for both School Fairs and Township Fairs to hold their shows on the same grounds the same day. Tf that were not possible it was believed to he to the interests of both to hold the Township Fair first. A plea was made for farmers to raise more live stock, as that could be attended to without extra help.

tinued assistance of the Department of Agricul-

Leading in the discussion, J. Farrell, of Forrest, pointed out the need for more co-operation and unity between fair boards of a district. It was suggested to have the the dates set well in advance, and advertise the main features of several fairs on one large poster. The method was considered economical, and where it had been tried gave splendid satisfaction. Every fair board was advised to publish on their prize lists the dates of all fairs hald in the district, in order that exhibitors, as well as visitors, might know what events they could conveniently attend. Mr. Farrell is a strong advocate of the School Fair movement, and believed every agricultural society should encourage the boys and girls.

#### A Prosperous Year.

The Secretary J. Lockie Wilson in his ro year, but care is taken not to have too many be given an opportunity to show what they can

THE FARMER'S ADVOCATE.

The poultry branch of the agricultural industry is becoming more important each year, but- for wool in the fleece, it would be an advantage. it was believed that officers of many societies As wool is purchased upon the basis of both Wilson: was of the opinion that every society should have proper coops for exhibiting the birds, and have them placed so the public could see the exhibits. It was believed that the prize list should be revised from year to year and classes added or removed in order to serve to the hest interests of the locality. In regard to Ladies' Work, the speaker believed the time had come when parties, who make a business of carting fancywork from fair to fair, oftentimes not the product of the exhibitor, should be debarred from exhibiting. The people who are professional exhibitors and travel from fair to fair, often buying the best products they can in order to win, are discouraging the amateur exhibitors of the locality, and the opinion was expressed that every consideration should be given the amateur. Mr. Wilson would like to see some provision made for the comfort of the visitors at the local It was believed that a few benches placed at different parts of the exhibition grounds, for a resting place, would be appreciated very much by many who attend the fair.

The financial statement showed a balance of \$134.13 on hand on January 1, 1916.

In discussing the Secretary's report, Connelly, of Cobden, advised that the Field Crop judges leave a score-card with the farmer in order that he might know where his crop fell short, so that he might endeavor to improve the showing of his field the coming year. believed that there should be no retrenching in money for agricultural work, as it was considered poor economy.

A representative from each district reported on the work carried on in their particular district. It was an experience meeting, and many ideas regarding ways and means of managing fairs were expressed. Throughout the Province the fairs were well attended, and there was a tendency to increase the showing of pure-bred stock. Field Crop Competitions encouraged the sowing of the best possible seed available, and the eradication of noxious weeds.

# Field Crop Competitions.

R. E. Mortimer, Honeywood, reviewed the work of the Field Crop Competition, and showed the steady growth it has made since its inception in 1907, when 11 societies connected themselves with the movement. It was believed that these Competitions have done a good deal toward improving the qualty of crops grown throughout the Province. They encourage better cultivation, more careful selection of seed grain, and the destruction of weeds, which leads to larger profit. Mr. Mortimer suggested that each society endeavor to increase the number of farmers part in the competition. At present the Bovernment makes a grant of \$50, which is supplemented by \$25 from the society. The speaker was of the opinion that the societies could well afford to increase their grant to \$50, thus making a total of \$100 to be distributed as prizes in each competition. Wm. Hickson, Bobcaygeon, outlined methods he practiced in judging field crops, and advised the farmer to make careful preparation for his crop. It was believed that the whole field of grain should be exhibited instead of only five acres, as is now the rule.

do in breeding, feeding and fitting. The speaker believed that if prizes were offered fineness of fibre and shrinkage, or in other words, the higher the shrinkage the smaller the price, the quality being the same. Therefore, it is necessary to impress on all sheepmen the advantage of cleanliness, and it was considered that there was no better place to show the proper grading of wool than at the fairs.

# Poultry Deserves Suitable Quarters.

Prof. Graham, of Guelph, speaking on the question of Improvement of Poultry Exhibits, at Rural Fairs, criticised the deplorable accommodation offered poultry at many fall fairs. Everybody is interested in the poultry business, yet a poor attempt is made to display the birds or make the poultry department at the fair of educational value. Prof. Graham urged the fair boards to supply uniform coops in which to exhibit the poultry, so that the judge would have an opportunity to examine the birds; and visitors could easily see the conformation and appearance of the birds, or be able to make comparison if they so desired. Instead of placing the poultry exhibit beside a board fence, the speaker stated that the feathered tribe should be accommodated in a building free from drafts. Many poultrymen will not show their best birds where the accommodation is poor. Much could be done along these lines to improve poultry exhibits. In regard to the prize list, it was considered a mistake to award prizes to pairs of birds, as it made judging much more difficult, and the educational value to the public was more or less lost. Showing singles is a more satisfactory method. was deemed advisable to entend the prize liste; and include with the fancy and utility birds, Pigeons and Bantams. This will please many boys, and possibly train them to take an interest in and exhibit the larger birds. The suggestion was made that there be classes for fat, chickens, either pure-bred or cross-bred, shown in singles or dozen lots. This class might be sub-divided for birds weighing from 81 lbs. to 41 lbs., and another class for birds 44 lbs. and up. Eggs were considered important, and prizes should be given at every fair, but the judging should be done on quality basis rather than according to size. Canada is now an exporter of eggs, and Prof. Graham urged the producer to market the product so it would reach the consumer in good condition. As eggs deteriorate quickly, ib, was believed that grading and candling eggs at the fair would be of educational value.

# Classify Horses at the Fairs.

Speaking of the proper classification of horses. at the fairs, W. J. Bell, Toronto, believed that, the agricultural societies could do much, through a proper classification of market horses, for the breeder of horses in assisting: him to establish correct ideas, by properly setting forth the true market standards at the fairs. Not enough horses are bred expressly for the market, but rather for the farm and road. The suggestion was made that all entries of draft horses at the fairs conform to the following classifications: Heavy-draft, weighing 1,500 fbs. and up, standing 16 hands and up; light draft 1,850 to 1,500 Ibs., 15.8 hands and up, in height; farm chunks, 1,350 lts., and less than 15.8 hands. claimed there was no place for an "agricultural" or a "general-purpose" horse on the market. The terms admit too much latitude to justify agricultural societies having a class for them. It was the opinion that directors of fair boards. should be careful to see that horses were entered. in their proper classes. The speaker suggested having the judge give reasons for his placings, in order to show the young exhibitors in particular the weak and strong points of their animals. In order to obtain the best satisfaction, exhibitors. should keep away from the judge, and also the practice of crowding the show-ring should the

217

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t be asked to remove the

more stringent temperance R. J. M.

port, pointed out that 1915 had been the most successful in the history of the Association. The Standing Field Crop Competition was meeting with decided favor. In 1915 there were 184 societies entered in 308 crops, an increase of 50 over the previous year. This represented 6,500 farmers and 65,000 acres of crops. To judge this large number of crops was no small task, especially when several varieties of one kind of grain were entered in one competition. Mr. Wilson suggested that farmers in each locarity specialize more and sow the one variety of grain which had proved to be satisfactory in the dis-Not only would growing one variety make trict. it easier for the judges, but from a financial viewpoint it was believed that a locality would profit by becoming noted for a special and pure varaety of grain or potatoes. Each year shows a marked improvement in the work done by the Departmental judges. This was considered to be due to judging courses held at Guelph and Ottawa each summer; a greater uniformity of judgment is secured, and the judge is in a better position to impart information to the farmer by attending these courses. An endeavor is being made to have the judges from Western Ontario visit the Experimental Farm, Ottawa, next summer, when the regular judging course for Eastern Ontario is being held there.

During 1915 the gate receipts of 31 societies were seriously affected by wet weather. Two received the maximum amount of insurance, \$300. The total amount paid out for weather insurance was \$3,403. Mr. Wilson reported that societies are now practically free from gamblers at the fairs. In the future there will be absolutely no excuse for societies which allow these law-breakers to operate on or near their grounds. Every member of a society was advised to see that enthusiastic and energetic officials were elected to office. The proper time to make preparations for next year's fair is immediately after the annual meeting. In Northern Ontario there are 57 societies and more are being organized each

#### Mutton and Wool.

Competition was considered by T. Reg. Arkell, of Ottawa, to be one of the most wholesome means of encouraging better production. At too many fairs the sheep section is looked upon as a side issue in connection with other live-stock exhibits. The speaker thought that from the standpoint of both mutton and wool, sheep should be accorded a prominent place at Ontario fairs. They form a double attraction, drawing to them the attention of farmers and sheep breeders, drovers and woollen manufacturers. The latter are becoming more interested in the development and encouragement of the Canadian sheep industry, and recognize the value of the fair in aiding its promotion on a sound and stable basis. Mr. Arkell believed that no class of exhibitors have brought more fame to Canada through their winnings at International Expositions on this continent than the Ontario sheep raiser. The speaker believed the classification at most Fairs for sheep is generally satisfactory and adequate, but at some exhibitions the classification has extended too far, with the result that the prizes were so meagre as not to make it worth while for even local sheep-raisers to take the trouble to show their animals. It was advised to place more emphasis on lamb classes at the local Fairs, and restrict commetition to animals hred and owned by the exhibitor. In this way small flock holders will

# Training for Department Judges.

The benefits of short courses for department judges was discussed by Prof. C. S. Archibald, of Ottawa, and it was his opinion that by having the judges of field crops or live stock before the season's work commenced, more uniform judging was done. The course tends towards advanced judging. The day was past when any ordinary stockman could act in the capacity of judge. As time advances, types of animals change, and the exhibitors look to the judge to give information, or at least his judgment tends to set the type in that district. lieved that every judge should be capable of giving reasons for his placings, and be willing to give information that would assist amateurs inforfitting and exhibiting their stock. By spending a few days in conference the judges all go to the stock. their work with the same idea regarding type,

#### THE FARMER'S ADVOCATE.

conformation and quality of an animal, so that if a different man acts as judge at a fair the following year, he will have the same type of animal in view, as did his predecessor. With the field crops, judges should all put the same stress on the various poin's, as stand of crors, freedom f.om weeds, and purity, so that uniform judging may be done over the Province.

218

Prof. F. C. Elfred, Experimental Farm, Ottawa, emphasized the importance of having capable poultry judges at the fairs, and also urged the directors of the various associations to revise their prize list; supply adequate accommodation for the poultry, and to have a proficient director in charge.

In view of the assistance given the Canadian National Exhibition by the Fairs and Exhibitions Association, the meeting decided to request that they be allowed a representative on the Board of the National Exhibition.

At the evening meeting Hon. F. G. Macdiarmid, acting Minister of Agriculture for Ontario, gave a resume of the value of the different crops in the Province. The speaker felt confident that the Association would receive the same assistance from the Government as it had in 1915. The farmer was urged to do his utmost in production in order that Canada might pass through the present crisis with her credit unimpaired.

N. W. Rowell, K. C., Leader of the Opposition, stated that the basis of the prosperity of any country lies in the prosperity of the farmer. The cities have been over built at the expense of the rural communities. Mr. Rowell believes there is a great gulf between the rural school and the Agricultural College, which should be bridged, and favors the system of agricultural schools in different parts of the Province.

A very interesting address on "Our Friends,

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Fair

the Allies" was delivered by Dr. Jas. W. Robertson, of Ottawa.

Following are the officers elected: President, J. C. Stuart, Osgoode Station; 1st Vice-President, Wm. Scarf, Durnam; 2nd Vice-President. L. J. C. Bull, Brampton; Treasurer, Alex. McFarlane, Otterville; Secretary and Editor, J. Lockie Wilson, Toronto; Auditors, R. Agnew, Meaford; and Dr. H. B. Atkinson, Embro. Directors : J. E. Montgomery, Osgoode Station; W. J. Connelly, Cobden; J. E. Johnson, Tweed, Edward Hawthorne, Warsaw; Geo. Downey, Bolton; J. V. Williams, Marshville; Geo. L Telfer, Paris, R. R. 2; Jno. J. Johnson, Fordwich; J. B. Clark, Blenheim; R. Brigham, Hanover, R. R. 1; W. J. Hamilton, Raymond; E. F. Stephenson, New Liskeard; and J. D. McColeman, Spring Bay.

# Canada's Live-stock Men Assemble in Toronto.

It was live-stock week in Toronto, beginning on January 31, 1916, when the breed associations he'd their annual meetings, and outlined their work and policies for the ensuing year. The Carls-Rite Hotel was headquarters, and all breed associations held their meetings there, except the Holstein-Friesian.

#### **Dominion Shorthorn Breeders Prosper.**

One breed society that has made steady progress, and one that is increasingly prosperous, is the Dominion Shorthorn Breeders' Association. The remarks of the President and the financial report of the Secretary at the annual meeting, held on Tuesday, February 1, substantiate this remark. The Association has been criticized as being too conservative, but one can easily understand how a breed society with such prestige and such an enviable record would be loath to depart from established customs and adopt new policies, regarding the outcome of which the breeders are uncertain. A good attendance was on hand at the meeting, and business was transacted in such a way as to indicate unanimity of purpose and confidence in the future.

The address of the President, J. M. Gardhouse, Weston, Ont. was a short review of the accomplishments of 1915. In the past year there were 11,135 registrations, being an increase of 948 over those of Memberships increased in 1915 by 250, giving the A sociation at the prisent time a membership of 2,244. The past year also saw many importations made; in fact there were more than in several previous years combined, and Mr. Gardhouse stated, "I am credibly informed that as soon as the embargo against cattle from Great Britain is removed that a considerable number more will be brought over. The results of the Record of Performance tests with Shorthorns have been gratifying, and there has been a steady increase in the number of applications for the test. Beginning in April, and up to the time of meeting, the following animals has e qualified: 12 two-year-old beifers gave an average of over 6,000 pounds of milic, testing 4.2 per cent. fat; 19 three-year-old cows gave an average of slightly over 6,500 pounds of míl's, testing 3.99 per cent.; 6 four-year-old cows averaged 7,100 pounds of mil's, testing 3.85 per cent., and 33 mature cows averaged over 8,700 pounds of milk, test-ing 3.9 per cent "Thus we are proving," said the President, "what we have long maintained that the Shorthorn ran's high from the dairy point of view, while from the beef standpoint the breed stands out pre-eminently." Mr. Gardhouse further explained the excellenci s of the Shorthorn and the breed's many qualifications, both for beef and milk. One splendid feature of the trade was commented upon, viz., the demand for what is known as farmers' hulls. The advice was given to breeders to record as soon after birth as possible. "It helps the Association: it helps the breeders individually; and it helps the conducting of records. The financial report of the Secretary, H. M. Pettit, Freeman, Ont., showed an excess of assets over liabilities amounting to \$33,541.44. There was also a balance of cash on hand stated as \$19,269.43, which is an increase over last year's balance of \$8,144.80. Mem ershits, re istrations and boo's sold, totill d \$26,290.89, being an increase of \$1,140.58 for respiration life items in the provious year.

by Robt. Müller, Peter White, W. A. Wallace and W. H. English. The discussion culminated in the following resolution, which was carried:

"That the Executive be empowered to take such action as may be deemed advisable in the matter of an active campaign for furthering the interests of the Shorthorn breed, and that they consider the appointment of a field man or men in connection with the work, and that they be empowered to expend the necessary money."

Breeders have found it difficult to secure auctioneers to officiate at public auction sales who are acquainted with-Shorthorn pedigrees and understand the breed. The discussion relative to this question is practically all involved in the following resolution, moved by Robt. Miller and seconded by T. A. Russell:

"That the Dominion Shorthorn Breeders' Association, at its annual meeting, hereby petition the Ministers of Agriculture in the various provinces to appoint official auctioneers to sell live stock at public auction sales made or controlled by the Department of Agriculture or its representatives in the provinces, and that the law be amended so that any auctioncer may secure a license for the whole province, and that a copy of this resolution be forwarded to the Ministers of Agriculture." This resolution carried unanimously. Breaders from Western Canada stated that they had experienced similar difficulties to those described by stockmen of Ontario.

Readers will probably remember that, in previous reports, mention was made of the agitation of representatives from the West to secure some fixed rule by which Directors would be appointed. A meeting of the Eastern and Western breeders was held in Winnipeg on July 16, 1914, and they recommended that it would be advisable that Sections 1 and 2 of Article 5 of the Constitution of the Dominion Shorthorn Breeders' Association be amended so as to provide for the election of Directors on the basis set forth in the following resolution :

"That this meeting Live Stock Breeders of Eastern and Western Canada recommends that in order to furnish adequate representation to all parts of the Dominion, the election of Directors on the Boards of the various Breed Associations should be based proportionately on the amount of bona fide membership fees paid by each province. This to be done by dividing the total membership fies by the number of Directors in each Association, and then dividing the membership fees received from cash province by the unit thus furnified, which will give the number of representatives to which that particular province is entitled. In the event of any province not furnishing a sufficient amount of membership fees to be divisible by the unit in question, or if any province docs not furnish fees to an amount greater thin cn-half the unit, such pro'l ce may f r purpass of re reantation be united with an adjoining province. When the amount of the fees d-rived from any province, after being divided by the unit, leaves a larger balance than one-half the unit, such province to be entitled to another representative; or on such basis as may be found feasible.' This resolution was moved in the annual meeting by Dr. J. G. Rutherford, and seconded by Robt. Mill r. The same resolution must, of course, be could red by the other breed societies, but the Shorthorn Association adopted it. It was thought advisible to give it more attention. Peter White, K. C., and Dr. J. G. Rutherford were appointed as a committee to consider it in defail, and make it feasible in all regards. The me tine approved of the resolution, which they adouted, but after it is completed it will come a min before the Asporiation for final acceptance. An official seal for the Association was given the attention of the meeting, and a design was accound for future use.

"That we place \$4,700 in the hands of the Executive Committee for grants to fairs, and that they be instructed to make the same grants as last year, with such additions as they may see fit."

Representatives from Western Canada, including Hon. Duncan Marshall, Minister of Agriculture for Alberta; Dr. S. F. Tolmie, Victoria, B. C.; Dr. J. G. Rutherford, Calgary, Alta.; and H. English, Harding, Man., gave interesting W addresses. The Hop. Duncan Marshall advocated such a change in the policy of the Association as would permit animals duly recorded in the Unlited States or Great Britain to be registered in the Dominion Shorthorn Herd Book. Great difficulty was experienced, he said, in obtaining suitable bulls to mate with milking Shorthorn cows, simply because the Record Board in Canada would not accept good sires that perhaps did not qualify as the requirements now stand He furthermore thought it advisable to accept and register animals that had been bred up after a sufficient number of crosses. This, he claimed, would encourage the use of more good pure-bred bulls, for the breeder could look forward to registering his stock after it was improved to the required extent.

Officers: President, J. M. Gardhouse, Weston; First Vice-President, W. A. Dryden, Brooklin, Ont.; Second Vice-President, J. F. Mitchell, Burlington, Ont.; Sec.-Treas., H. M. Pettit, Freeman, Ont.; Registrar, R. G. T. Hitchman, Ottawa. Board of Directors, A List: Hon. W. C. Sutherland, Saskatoon, Sask.; C. A. Archibald, Cliton, N. S.; John Gardhouse, Highfield, Ont.; J. A. Watt, Elora, Ont.; P. M. Bredt, Calgary, Alta. B List: Wm. Smith, Columbus, Ont.; J. G. Barron, Carberry, Man.; Robt. Amos, Moffat, Ont.; J. A. McClary, Lennoxville, Que.; Jas. Kyle. Drumbo, Ont. C List: S. Dyment, Barrie, Unt.; W. R. Elliott, Guelph, Ont.; J. G. Washington, Ninga, Man.; W. A. Wallace, Kars, Ont.; Jas. Douglas, Caledonia, Ont

The members of the Association authorized a grant of \$500 to be equally divided between the 'anadian Patriot's Fund and the Canadian Red Cross Fund. The Exact we was also empowered to invest as much of the surplus funds in such investing as they may down advisable.

A propaganda was suggested to bring before the putity the ave ilenel's of the Shorthorn brown and in every way further the interests of th Shorthow and patrons of the bread. The possibilities of such a scheme were enumerated in part sconded by J. G. Barron:

The action taken with regard to grants to intes and exhibitions is fully evplained in the following r solution, moved by Harry Smith, and

Committee : J. M. Gardhouse, Chairman; Harry Smith, Peter. White, Robt. Miller, and W. A. Dryden.

Delegates to National Record Board: Harry Smith, Peter White, Robt. Miller, J. M. Gard-house, W. A. Dryden, and J. A. Watt. Delegates to Dominion Cattle Breeders' Association: Harry Smith and J. A. Watt.

Representatlives to Exhibition Boards: Canadian National Exhibition, Toronto, Robt. Miller and J. A. Watt; Western Fair, London, Capt. T. E. Ro'son, London, and J. T. Gibson, Denfield; Central Canada Exhibition, Ottawa, J. M. Gardhouse, and W. H. Hartin, Twin Elm; Intef-Frovincial Fair, Brandon, Geo, Gordon, Oak Lake; J. G. Barron, Carberry, Man.; Barron, Carberry, Pro.incial Exhibition, Regina, Jos. Barnett. Moose Jaw, Sas'c., and Geo. Kinnon, Cotconwood, Sask; Inter-Provincial Exhibition, Saskatoon, Hon. W. C. Sutherland, Saskatoon, Sask. and R. W. Caswell, Saskatoon: Provincial Exhibition, Edmonton, James Sharpe, Lacombe, Alta., and Hon. Peter Talbot, Lacombe, Alta.; Industrial Exhibition, Calgary, Chas. Yule, Carstwirs, and J. L. Walters, Clive, Alta.; Vancouver Exhibition, A. D. Patterson, Fran's Ward, Douglas La'se A. D. Patterson, Ladner, and Exhibition, Shrirooke, J. H. M. Parker, Lennoxvi'le, Que., and F. R. Cromwell, Cookshire, Que.; Provincial Exhibition of New Brunswick, R. A. Snowball, Chathan, N. B., and A. E. Trites, Salisbury, N. B. Fro incial Exhibition, Habifax, N. Griffin, New Minas, N. S., and A. E. Crowe, Old Barns, N. S.: Provincial Exhibition, Charlottetown, Hon. John Richards, Bideford, P. E. I., and J. M. Laird, Kelvin Grove, P. E. I.; Ontario Winter Fair Guelph, J. M. Gardhouse, and W. R. Elliott: Ottawa Winter Fair, Jas. Smith, Roc'land, and W. A. Wallace, Kars, Brandon; Regina, and Colvary Winter Frirs, same delerates as appointed to summer fairs; Maritime Winter Fair. Amherst, A. N. Griffin, New Minus, and Albert Boswall, P. E. I.

Th Associ Hall, attend

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livered by Dr. Jas. W. Robert-

the officers elected: Presit, Osgoode Station; 1st Vicecarf, Durnam; 2nd Vice-Presi-1, Brampton; Treasurer, Alex. ille; Secretary and Editor, J. oronto; Auditors, R. Agnew, H. B. Atkinson, Embro. Direcomery, Osgoode Station; W. J. ; J. E. Johnson, Tweed, ne, Warsaw; Geo. Downey, illiams, Marshville; Geo. L. R. 2; Jno. J. Johnson, Ford-Blenheim; R. Brigham, Han-J. Hamilton, Raymond; E. F. iskeard; and J. D. McColeman,

# oronto.

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t, J. M. Gardhouse, Weston; W. A. Dryden, Brooklin, esident, J. F. Mitchell, Bureas., H. M. Pettit, Freeman, G. T. Hitchman, Ottawa. A List: Hon. W. C. Sutherk.; C. A. Archibald, Clitton, use, Highfield, Ont.; J. A. M. Bredt, Calgary, Alta. Columbus, Ont.; J. G. Bar-Robt. Amos, Moffat, Ont.; oxville, Qu'e.; Jas. Kyle. st: S. Dyment, Barrie, Unt.; , Ont.; J. G. Washington, Wallace, Kars, Ont.; Jas.

#### **FEBRUARY 10, 1916**

the different breads of cattle, are influenced by the standing and policies of the Dominion Cattle Breeders' Association, which is made up of directors from the various breeds.

The words of the President, John Gardhouse, Weston, at the annual meeting were few, them he very nicely but in explained position of the industry at the pres-time. "The cattle trade," he said, "and the outlook for trade in cattle is very good. There is a shortage the world over. All stockmen should endeavor to produce more cattle and better cattle. If it pays to breed poor cattle, it will pay better to breed good on s." Last year Mr. Gardhouse, R. W. Wade, and Prof. M. Cumming, Truro, were appointed as a committee to investigate the possibilities of arranging for Association Cars going East as they go West, and thus work up a trade for live stock in the Maritime Provinces. Many difficulties must be confronted before the enterprise can be put on a practical and working basis, and the committee could not report through Mr. Gardhouse any definite or satisfactory conclusions.

For the last few years cars have been sent West at fairly regular intervals, on which stockmen in Ontario could ship animals to purchasers in the Western Provinces. These are known as "Association Cars," and they have been instrumental in furthering the trade in live stock between the Ontario breeder and purchasers in Saskatohewan, Alberta and British Columbia. The rates on two or three animals would be prohibitive, but by assembling the many consignments into one or two cars it has been possible to carry on a fair amount of business. seven Association Consignments, which were made in as many months, carried 28 horses, 108 cat-The tle, 76 sheep and 8 swine. The rates paid by the individual shippers have not been sufficient to defray expenses, and it was felt that a higher rate would make the practice of shipping in this way out of the question. To go into the matter fully, a committee, comprising John Gardhouse, H. D. Smith and W. A. Dryden, was appointed. They were authorized to wait upon the Provincial Minister of Agriculture as to a grant to carry on the work, and also to study the details as to transportation, and other factors influencing the financi 1 success of Association Cars

All but two of the directors of the Dominion Cattle Breeders' Association are appointed at the meetings of the various breed societies, as can be learned from a report of their conventions. The two directors appointed at this meeting were Prof. G. E. Day, of the Ontario Agricultural College, Guelph, and John Gardhouse, Representatives to the various fair boards are as Weston. follows : Canadian National, Toronto, John Gardhouse, Weston; Western Fair, London, W. W. Ballantyne, Stratford, and Harry Smith, Hay; Central Canada Exhibition, Ottawa, the President of the Dominion Cattle Breeders' and J. J. Hodgins, Ottawa; Winter Fair, Guelph, W. A. Dryden, Brooklin, John Gardhouse, W. W. Ballan tyne and R. S. Stevenson, Ancaster; Winter Fair, Ottawa, Peter White, K. C., Pembroke, J. H. Grisdale, C. E. F., Ottawa, W. F. Stephen, Huntingdon, Que.

Dominion Cattle Breeders Discuss Funds. interests of owners of the Black-and-White breed ers' Association. However, a good year's busi-

THE FARMER'S ADVOCATE.

The President, D. C. Flatt, gave a resume of the past year's work of the Association, and it was gratifying to the members to know that the membership had reached the twenty-two-hundred mark. The cash balance over last year has increased, and everything points to a still greater prosperity. The consignment sale held in New Westminster, B. C., on Oct. 13 last, was not the success many had hoped it would be, due possibly to the fact that it was a cash sale, and money was none too plentiful. The 56 choice heifers consigned by different breeders in Ontario, reached their destination in first-class condition, and while the prices expected were not obtained, it was believed that the placing of these heifers in British Columbia would be a good advertisement for Ontario Holstein Breeders. At the leading shows last year, the number of Holstein cattle exhibited exceeded that of any previous year, and Mr. Flatt considered that the Association should take action to increase the amount of prize money awarded. It was pointed out that at the Canadian National Exhibition the Holstein entries last year exceeded those of Shorthorns by 156, and yet the prize list showed that \$649 more was given to the Shorthorns than to the Holsteins. Mr. Flatt's advice was

for the Holstein men to get their wires busy. The Secretary, W. A. Clemons, gave his report for 1915, which was received with interest by the members pr.sent. During the year certificates were issued for 874 official tests made under the Record of Merit rules, of these 492 were new tests for seven days. Twenty-five bulls were admitted to the Record of Merit during the year. One hundred and ninety cows qualified in the Record of Performance test bringing the total up to 823. Six bulls qualified for admission to the Record of Performance by siring four tested daughters, all from different dams. There was a large increase in the number of registrations during the year, bringing the total to 10,260. The number of transfers was 7,813, which was considered exceptionally good under prevailing conditions. There were 31 registrations of farm names. The auditors' report showed a balance of \$1,597.94 on hand Dec. 31, 1915. The total assets were \$18,596.18, with no liabilities.

The reports of committees were dealt with clause by claus?. After considerable discussion the recommendation, that the Association grant \$1,000 to the Canadian National Exhibition, provided that the Exhibition Board put the Holstein-Fricsian Association on the same basis as other breeds, was adopted. The grants to other fairs were left the same as last year. There was a good deal of discussion over the proposed change in the amount of money paid for Record of Merit tests. The Executive suggested leaving the amount the same for new men having cows that make a record, but that old breeders who had received money should receive less assistance after March of the present year. Those favoring a change believed that men who knew the value of testing would continue and could be used to better money advantage in encouraging new members to make Record of Merit tests. Some breeders suggested increasing the amount of money paid to new members who had cows qualifying. It was believed that the Record of Merit is the best means of making a name for the Holstein breed. Finally the meeing decided to make no change this year.

ness was reported, and the breeders went home pleased with their meeting; and the success of the breed. The President, A. H. Trimble, Red Deer, Alta., told the members present of his experiences in Alberta, to which country he migrated over twenty-six years ago.

219

The report of the Secretary, W. F. Stephen, Huntingdon, Que., explained the financial condition of the Association, and progress as to membership. Last year the Secretary reported 1,222 members, but among them were a number of names of breeders long out of business. Names numbering 154 were struck off. There were also 45 resignations and deaths during the year; 174 new members were added to the list in 1915, so on December 81 last there were 1,197 members, to be found in the different provinces as follows: Quebec, 565; Ontario, 360; Alberta, 67; Nova Scotia, 51; New Brunswick, 36; Manitoba, 35; Saskatchewan, 27; Prince Edward Island, 25; British Columbia, 21; and United States, 10. During the year there were recorded 3,682 pedi-grees, 1,407 transfers, and 68 duplicates and new certificates, being an increase of 186 pedigrees and 43 transfers over 1914. Ontario leads in this increase, with Quebec, Nova Scotia, Prince Edward Island and New Brunswick following in There has been a slight falling out in order. registrations in the Western Provinces, due to trade conditions. Dairy tests with Ayrshires were satisfactory in the year just past. At the Calgary and Brandon tests Ayrshires won over all breeds. For the Record of Performance test, 598 entries were received, and 182 cows and heifers registered in this test in 1915. Only in the three-year-old class was a record broken. The heifer, Milkmaid of Orkney, owned by Harmon McPherson, Orkney, Ontario, made 14,060 lbs. of milk and 534 lbs. of butter-fat. During the year about 30 head of Ayrahires were imported. The Secretary's report showed a cash balance of \$6,226.88, an increase of \$514.28 after paying a liability of \$1,374.48, and \$275 on Volume 85 of the Herd Book. The state of the finances shows the Association to be in a healthy condi-Some discussion arose as to who should tion. receive the diploma on bulls which sire Record of Performance females. Some favored the breeder or importer, but the majority were in favor of hat ing the diploma go to the owner of the bull at the time of service. Subse uent owners of the bull can procure a copy of the diploma for 50 cen's,

The Vice-Presidents are the same as in 1915, except that J. H. Black, Lachute, Que., takes the place of Robert Ness, Howick, Que. The Directors for the Western Division were re-elected. Only one change in delegates to Fair Boards took place, and that was with Ottawa, where the Association will be represented by the President, and Secretary.

Officers: President, M. Ste. Marie, Compton, Quebec; Vice-President, W. W. Ballantyne, Strat-ford; Secretary-Treasurer, W. F. Stephen, Huntingdon, Quebec; Registrar, A. R. Dawson, Ottawa. The

Executive and Finance ardhouse, Chairman; Harry Robt. Miller, and W. A.

nal Record Board: Harry Robt. Miller, J. M. Gardand J. A. Watt. Delegates reeders' Association: Harry

Exhibition Boards : Canition, Toronto, Robt. Miller ern Fair, London, Capt. T. and J. T. Gibson, Denfield; ition, Ottawa, J.M. Gardrtin, Twin Elm; Intef-Prodon, Geo, Gordon, Oak arron, Carberry, Man.; and Geo. Kinnon, Cotconovincial Exhibition, Saskaherland, Saskatoon, Sas't., as'atoon: Provincial Exhines Sharpe, Lacombe, Alta., ot, Lacombe, Alta.; Indusry, Chas. Yule, Carstwirs, ive, Alta.; Vancouver Exatterson, Ladner, and as Lake: Great Eastern J. H. M. Parker, Lennox-Cromwell, Cookshire, Que.; of New Brunswick, R. A. N. B., and A. E. Trites, incial Exhibition, Halifax, as, N. S., and A. E. Crowe, ovincial Exhibition, Char-Richards, Bideford, P. E. elvin Grove, P. E. I.; Onlph, J. M. Gardhouse, and Winter Fair, Jas. Smith, Wallace, Kars, Brandon; nt r Feirs, same delevates er fairs; Mar time Winter Griffin, Now Minus, and

# Hereford Breeders Had a Good Year.

Optimism for the future of the Hereford breeders of this country was the keynote of the President's address at the annual meeting of the Socliety, held at Toronto, on Wedmesday, Jan. 3. The statement that the demand was decidedly greater than the supply, especially for bulls, was well received by the large gathering of members present. The financial statement of the Secretary showed the finances of the Society to be in so satisfactory a condition that \$100 was added to the amount donated in grants to the various exhibitions, making the total amount of grants for 1916, \$1,600. The cash balance on hand at the beginning of the year was \$951.16, and the total assets over liabilities, \$3,519.31. Officers for the present year are: President, L. O. Clifford, Oshawa; Vice-President, W. H. Hunter. Orangeville; Secretary-Treasurer, H. D. Hamilton. Smith. Directors : J. A. Chapman, Hayfield, Man.: F. Collicutt, Calgary, Alta.; W. H. Smith, Camrose, Alta.; J. I. Moffat, Carrol, Man.; J. E. Reynolds, Elora, Ont.; James Page, Wallace-town, Ont.; J. A. McDiarmid, Batteau, Ont.: Walter Readhead, Milton, Ont.; Henry Reed, Orton, Ont.; H. J. Reid, Hamilton, Ont.; Thos. Skippon Hyde Park Ont. T. K. McConnell, Fair-Skippon, Hyde Park, Ont.: T. K. McConnell, Fairmount, Ont. Vice-Presidents for the Provinces: Ontario, A. O'Neil, Denfield: Manitoba, J. A. Chapman, Hayfield: Saskatchewan, W. H. Harrison, Montmarte; Alberta, F. Collicutt, Calgary; British Columbia, C. Charlton, Vancouver; British Columbia, C. Charlton, Quebec, W. G. Draper, Compton; Nova Scotia, W. O'Brien, Windsor.

#### Holstein Breeders Optimistic.

The annual meeting of the Holstein-Friesian Association of Canada was held in Foresters' Hall, Toronto, Feb. 3. The meeting was largely attended, and many questions relative to the best

Two notices of motion, as outlined in our issue of January 13, page 48, one to amend article six, section four of the Constitution and By-laws, and the other to amend the Record of Marit rules, were adopted without discussion.

The meeting granted \$200 to Messrs. Brock & Laidlaw as a reimbursement for cattle accidentally killed in the British Columpia shipment.

The question came up regarding certain statements which had been made in the Province of Quebec regarding the Holste'n breed as being particularly subject to tuberculosis, and the Association granted \$50 for research work regarding tuberculosis in Quebec

A large number of Holstein breeders attended banquet, held at the Carls-Rite Botel, Wednesday evening. The speaker of the evening was Dr. J. A. Macdonald, Toronto, whose eloquent address was thoroughly enjoyed. Other peakers on the program were: Prof. Dean, Guelph; Prof. Geo. E. Day, Guelph; C. F. Bailey, Assistant Deputy Minister of Agriculture for Ontario: H. A. Craig, Deputy Minister of Agriculture for Alberta.

The following officers were el c'ed : President, M. H. Haley, Sprin-ford First Vice-President, J. W. Richardson, Caledonia; Second Vice-President, M. Michener, Red Deer; Third Vice-President, N. Sangster, Ormstown, Que.; Fourth Vice-President, Dr. Tolmie, Victoria, B. C.; Secretary-Treasurer. W. A. Clemons, St. George. Directors appointed were: F. R. Mallory, Frankford, and R. J. Kelly, Cullodin.

#### Ayrshire Breeders Have Pleasant Session.

No sensational features developed in the annual meeting of the Canadian Ayrshire Breed-

Ayrshire breeders were entertained very enjoyable banquet on the evening of Wednesday, Feb. 2. Speakers of the evening were Dr. C. C. James; Alex. Hume, Menie, Ont.; H. A. Craig, Deputy Minister of Agriculture for Alberta; Dr. S. F. Tolmie, Victoria, B. C., and Professor H. Barton, Macdonald College, who favored the visitors present with addresses along practical lines.

#### Jersey Cattle Club Have Good Year.

There was a large attendance at the annual meeting of the Canadian Jersey Cattle Club, neld at Toronto, on Tuesday, Feb. 1. A rapid ex-pansion of the club's influence and a strong position of stability were manifest by the financial statement of the past year, as read by Secretary B. A. Bull. The cash balance on hand at the beginning of the current year was \$1,964.55, an increase of \$700.22 over that of a year ago. During the past year there were 1,065 registrations and 887 transfers, and an increase in membership of 11. The officers elected for 1916 are: President, F. L. Green, Greenwood; President, D. O. Bull, Brampton; Second Vice-President, H. A. Dolson, Norval : Secretary-Treasurer, B. A. Bull, Brampton. Directors: J W. Pringle, London; H. H. Gee, Hegersville; J. M. Dolson, Brampton; R. J. Flemling, Toronto; and Geo. Bagg, Edgeley.

A grant of \$25 was made to the Dominion Cattle Breeders' Association, re financing the Government cars of pure-bred cattle for the Eastern and Western Provinces. It was also decided to continue the grants re prizes for R. O. P. tests. An additional grant of \$25 was made to the winner of the Dairy Test, in Guelph, provided the winner was a Jersey. The Executive was empowered to inaugurate an advertising scheme through the medium of the press and other means to more prominently bring before the public the superior qualities of the Jersey as the ideal dairy cow. The proposed amended Constitution, as brought before the meeting for en-dorsation, caused a lengthy discussion, and several minor changes were adopted.

Can fact poses sentative and that tew horses passed to t Government their Horse L Inspection Cer. inarian of this A Act. The financ on hand of \$167. representing the v. dales : Walter Scot Columbus; John A. Scarf, Cumming's 1 Columbus; Peter Chr Henderson, Thamesford; ham; Wm. Graham, Cla Markham; A. E. Major, Belton; Robt. Graham, Green River; W. F. Batt John Gardhouse, Weston, Weston; Percherons; Beaverton; M. Hamilton, A. E. Yeager, Simcoe Barrie Simcoe ; Barrie. Standard-Breds : Toronto; Geo. Pepper, Toronto. Wm. Hendrie, Hamilton; Col. Ponies: H. M. Robinson, Toron ton, Toronto.

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# Clydesdale Breeders Consistitution.

The most important matter brough annual meeting of the Clydesdale Hor. tion of Canada, at Toronto, on Thurs. was the amended Constitution. A g of discuss on arose over some of the cla nothing definite resulted. Finally it was to leave the matter in abeyance, and the tary was instructed to send a copy of th Constitution to every member for perusal the next annual meeting. The Directors' urged breeders to be prepared to me t the de for breeding stock, that was sure to come the termination of the war, by breeding all el ble mares and keeping their registrations up the minute. It was also stated that enquir, had come from Australia relative to the possibilities of securing breeding stock in this country. The President, in his address, spoke of the superiority of the Clydesdale over other draft breeds, and urged the organizing of Provincial Associations to further the interests of the Clydesdale breed. The financial report showed the Association to be flourishing despite the all verse conditions caused by the war. There was a slight falling off in registrations, but a substantial increase in membership. The total re-ceipts for 1915 were \$10,318.77, as compared with \$10,709.55 for the previous year, while on the other hand the expenditures showed a reduc-tion of \$994.09 as compared with the previous year. The cash on hand at the beginning of the year was \$9,604.99, and the excess of assets over habilities was \$19,859.90. Officers for the year are : President, John A. Boag, Queensville; Vice-President, Wm. Graham, Claremont. Direc-tors: Wm. McCurdy, Napinka, Man.: Walter Scott. Sutton; W. Fred. Richardson, Columbus; James Torrance, Markham; T. H. Hassard. Markham; James Henderson, Thamesford; T. D. Elliott, Bolton, Vice-Presidents for the provinces: Ontario, Peter Christie, Manchester; Quebec, Robt. Ness, Howick; New Brunswick, R. S. Snowball, Chatham; Nova Scotia, S. A. Logan, Halifax; Prince Edward Island, T. Ross. Charlottetown; Manitoba, John Graham, Carberry; Saskatchewan, Alex. Mutch, Saskatoon; Alberta, E. D. Adams, Calgary; British Columbia, Wm. Montgomery, Vancouver.

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# Shire Breeders Hear Good Report.

It was not a large body of Shire breeders who assembled for their annual meeting on the evening of Thursday, February 3, but the report of the Secretary-Treasurer, G. de W. Green, Toronto, indicated that the breed itself had prospered during 1915. The year was commenced with a balance on hand of \$1,511.71, and there was carried over to 1916 a balance of \$920.12. should be considered, however, that during 1915. It **\$560** was expended on printing Volume 3, as against nothing in 1914. The grant was also paid the Guelph Winter Fair for 1915, and \$50 was levied for salaries at Ottawa, both of which latter items have in the past been paid in the year following. Membership fees were received to the amount of \$156, as compared with \$104 in 1914. Registration fees, however, were slightly lower. On the Statement of Membership fees, y lower. On the Statement of membership lees, Winnineg; Quebec, F. E. Cang, F. Manitoba followed with \$32, while Quebec sent Scotia, C. A. Webster, Varmout \$8; Saskatchewan, British Columbia, and United wick, R. A. Snowball, Chatham.

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At the a Society, on Secretary sho most prospero. There was a su and transfers, a increase of fully on hand at the \$1,377.90. The bal: as that of a year are that during the past grant of \$200 to the B substantial increase in th tary-Treasurer, and increa tions to the various exhibit showed an excess of asse \$893.12. The following mo the meeting, and after consid was adopted: "That in the op. ciety the time has arrived when building should be secured, whe stock associations could be housed u where a complete agricultural and library, together with a complete set ( ous Stud Books could be kept for the 1 the members, and that the Executive of ciety be empowered to confer with the Ex of other live stock societies, and report by this Society." The following of cers were e for the current year: President, Harry L Barrie; Vice-President, Robt. Graham, Toro. Directors : T. Graham, Claremont; A. Yeag Simcoe; R. A. Snowball, Chatham, N. B.: W. Jewell, Bowmanvile; J. R. Thompson, Guelph; Dr. E. Watson, Hudson Heights, Que.; J. G. Carrol, Toronto. Directors for the Provinces: British Columbia, Waltyr Renfrew, Okanagan Mission; Alberta, Wm. Stark, Edmonton; Saskatche-wan, Wm. Grant, Regina; Manitoba, J. Lemon, Winnineg; Quebec, F. E. Cano, Richelieu; Nova Scotia, C. A. Webster, Yarmouth; New Brans-

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#### FEBRUARY 10, 1916

#### Dominion Swine Breeders Discuss Registration.

Farmers from the East and West gathered at the annual meeting of the Dominion Swine Breeders' Association, held on Friday, February 4. The President, J. D. Brien, Ridgetown, emphasized the necessity of more co-operation in the handling of swine products.

According to the Financial Statement, swine were recorded in 1915 as follows: Yorkshire, 3,147; Berkshire, 2,535; Tamworth, 675; Chester White, 1,555; Duroc Jersey, 1,387; Hampshire, 117; Poland China, 595. There were in all-9,718 registrations, 1,507 transfers, 86 duplicates and new certificates, and \$1,818 in memberships.

The outcome of some discussion in the meeting was, that the Executive Committee be authorized to immediately communicate with the American Swine Breeders' Association, with a view of getting a reciprocal standard of registration. J.E. Brethour, Burford, moved that the classes for grade hogs be eliminated from prize lists at fairs, and that a class of butcher hogs be recommended as an addition to the prize list of the Ottawa Winter Fair. This motion was carried un-animously. The Frecutive and Secretary were instructed to recommend to the Provincial Fairs that they make classes for all recognized breeds' of swine. It was furthermore recommended that the Duroc Jersey and Poland China be made into two classes at Toronto and London. The new Constitution was adopted by the Dominion Swine Breeders without discussion.

Officers elected : President, J. C. Stuart, Osgoode Station; Vice-President, P. J. McEwen, Wyoming; Secretary-Treasurer, R. W. Wade, Toronto. Directors: H. M. Vanderlip, Brantford; William Jones, Mt. Elgin; Herbert German, St. George, Ont.; W. F. Wright, Glanworth, Ont .: Geo. G. Gould, Essex, Ont.; Alex. Hastings, Crosshill: Professor G. E. Day, Guelph; Dr. S. F. Tolmie, Victoria, B. C.; George Campbell, North-wood; J. D. Brien, Ridgetown.

# THE FARMER'S ADVOCATE.

# Ontario Swine Breeders Convene.

The first annual meeting of the Ontario Swine Breeders' Association was held at Toronto, on Friday, Feb. 4. The principal business brought forward was the consideration of the Constitution, as drafted by the Executive, which was accepted in its entirety. The grants to the vari-ous exhibitions were left in the hands of the Executive. On motion it was decided to ask the Executive of the Provincial Winter Show to recognize the representatives appointed by this Association instead of the Dominion Swine Breeders' Association. The election of officers representing the various breeds resulted in the following being elected: Yorkshires: Prof. G. E. Day, Guelph; Wm. Jones, Mount Elgin; and John Flatt, Hamilton. Berkshires: John Kelly, Shakespeare; and H. A. Dolson, Norval. Tamworths: Geo. Douglas, Mitchell. Chester Whites : W. F. Wright, Glanworth. Duroc Jerseys: Geo. Campbell, Northwood. Poland Chinas and Hampshires : Cecil Stobbs, Leamington. Secretary, Treasurer, R. W. Wade, Toronto. Auditor, G. de W. Green, Toronto.

At the meeting of the newly-elected Executive, Prof. G. E. Day was elected President, and John Flatt, Vice-President.

#### Berkshire Breeders Want a Common-Standard.

President H. M. Vanderlip, in his address at the annual meeting of the Ontario Berkshire Breeders' Society, spoke enthusiastically of the growing demand for breeding stock, and drew the Society's attention to the necessity of endeavoring to arrange a reciprocal standard of registration with the American Berkshire Society. The meeting by motion appointed the President, Vice-President and one Director, a committee to confer with the Executive of the American Association to arrange a common standard of registration for both Societies. The financial report

showed a cash balance on hand on Jan. 1 of \$317.56. The following grants were made to the various exhibitions: Canadian National, \$75; Provintial Winter Show, \$75; Canada Central, \$40; Ottawa Winter Show, \$40; Western, London, \$40. The following officers were elected for the year: W. W. Brownridge, Georgetown; J. D. Brien, Ridgetown; H. M. Vanderlip, Brampton; Adam Thompson, Stratford; Fran' Teasdale, Concord; W. Boynton, Dollar; T. H. Weir, Paris.

#### Yorkshire Breeders Assemble.

At the meeting of the Ontario Yorkshire Club, held on Friday, February 4, W. H. English, Harding, Manitoba, explained what was being done in the West in order to alleviate marketing conditions when hogs become abundant, as they did in 1914. Cold storage plants and public alattoirs are under consideration in the Western Provinces and, when these materialize, Mr. English thought a repetition of the marketing conditions of 1914 would not occur. J. Bosfield, also of Manitoba, explained to the breeders present that the mail order businesss between the Prairie Provinces and Ontario might be developed, if theywould take care in crating the swine for shipment. He advised a light crate, only large enough for the pig to lie down, and the crate to be made probably of one-half-inch stuff, if the animal was not too large.

The Club reported a cash balance on hand of \$379.13, and the same grants were made to the fairs and exhibitions as for 1915.

Officers : President, J. C. Stuart, Ottawa; Vice-President, H. A. McDiarmid, Fingal; Secretary-Treasurer, R. W. Wade, Parliament Buildings, Toronto. Directors : W. A. Jons, Mt. Eigin; John Flatt, Hamilton; William Manning, Palmerston; Ken. Featherston, Streetsville; J. E. Brethour, Burlord.

# King Corn and His Courtiers Capture Chatham.

The Ontario Corn Growers' Association held their Annual Corn Show and Convention in Chatham last week. The exhibition was this year staged in the curling rink in place of the armories, which were not available, because of the war. The large rink was filled with fine exhibits, and space was at a premium. The variety of implements, machinery, etc., brought out the fact that corn is one of the most important factors in Canadian agriculture, and upon it much of the success of various other lines of business is dependent. Nearly everything needed in the cultivation, harvesting and handling of the corn crop was there. On exhipition were: a ditcher to drain the land; different forms of discs, ploughs, etc., to prepare the land; check-row planters to plant corn; corn cultivators to cultivate it; harvesters to harvest it; engines and cutters to cut it; silos to ensile it; barns and stables to house the cattle to eat it; separators to separate the milk from the cows which consume it; pumps to bring the water to water these cows; washing machines to cleanse the clothes soiled in the handling of the corn crop; and everything in connection with corn from start to finish was on exhibition, even to automobiles on which to spend the money made from the corn crop. But in the midst of it all, "Corn was King. On the whole the Show was a success. quality of the corn exhibited was described by Prof. Moore, of Wisconsin, as being equal to any at a Wisconsin corn show, and he expressed surprise that the corn showed as much maturity as it did in a wet season like the past. The number of entries was about equal to those of last year, and the long rows of uniform, yellow and white cohs attracted the attention of large crowds each day of the Show. Lambton county had a very attractive exhibit, recommending Golden Glow and Wisconsin No. 7, as the best variaties for the county. The Kent Centre Farmers' Club occupied the centre of the hall, with a large crown built of corn, and covering a model Kent county farm. This exhibit attracted a great deal of attention. Longfe'low and Salzer's North Dakota were most prominent among the Flint varieties, and Bailey and Wisconsin No. 7 were outstanding among the Dents. The Dent corns contained a little more moisture than usual. The Flints were well matured throughout. The grain exhibit was fair, containing about six entries of alsike, four of timothy, four of red clover, one each of alfalfa, flax, rye and peas; about twenty of beans, fifteen of oats, and eight each of barley and wheat.

tion of Corn, pointed out that the benefit from planting is lost unless attention is paid to cur-Testing is all right, but 90% of the importance is placed on the curing. Corn should show 90 to 95% vitality. When cut it contains 20. to 30% moisture, which should be reduced to 10 to 12% in drying. The secret of kiln-drying is a free circulation of air. Without it, corn will spoil. Prof. Moore advised small buildings, if necessary of cheap construction, in which many holes are made to let in the air. bushels of seed corn will plant 36 acres, in accordance with the check-row system, 42 inches of grain, are compared and harvested. Six plots are cast out, and the four best retained for ineach way, four kernels to the hill. This much could be dried in the house. Prof. Moore advised putting a corn tree in the parlor, and to arrange the ears so they will not touch one another, open the windows and dry the corn. Corn should never be placed near the south side of a building in drying, as the sun's rays may injure germination. After drying, the corn should not be placed in a room where it will take on outside moisture before cold, frosty weather sets in. There are four things which Prof. Moore recommended to be remembered about corn: First, that it should not be dried in the direct rays of the sun; second, corn, kiln-dried, should not be exposed to zero weather; third, corn should have free circulation of air the first few days while kiln-drying; fourth, corn should be placed in a dry room free from rats and mice. In selecting corn, always pick out well-formed ears, and those which show early maturity. Pick the corn as soon as the husks begin to turn yellow. A light frost will not injure it. The latter part of the growing season seems to improve the vitality of the corn greatly. Select the ears which are attached to the stock, about three feet from the ground. In selection from the rows, study the corn in the milk stage, and mark the best stocks. Discard bad ears after husking. Corn should be put in curing place the day it is taken from the field. Fifteen average ears will plant one acre, four kernels to the hill. Prof. Moore advised testing the corn in a box 20 by 40 inches, laid out into one-inch squares, using damp sawdust over muslin for the sprout-All ears which show any defects in gering. mination should be discarded. Seed from the butts and tips should not be used. Prof. Moore cited, as the best means of disseminating good seed, the work of the Wisconsin Experiment Association, an association founded on much the same principles as those of our own Agricultural and Experimental Union. The members of the Association are men who have taken a two-year short course at the College, and who are wideawake to the needs and advantages of good seed. Professor Moore described the Nursery and Centgener methods of breeding seed grain and corn, adopted at the Wisconsin College. In grain 3,000 seeds of a certain variety are planted in a nursery bod, plants four inches apart in the

bed, with the border rows discarded. Twenty heads are selected from the 3,000, and the ten heaviest retained from the second-year beds. These are put in little beds called the Centgener plots, containing 100 plants besides the outside rows, each plant having within it the progeny of a seed from the previous year. The first five or six heads are selected from the best plants in each Centgener plot and retained for the following year, and the process repeated the third year and fourth year. The entire Centgener plots, of which there are ten for each variety creased plots. The fifth year one square rod is sown, which is increased to one-tenth of an acre the sixth year, and the acre-plot the seventh year. By the eighth year the twenty-acre plot

#### CURING, TESTING AND DISSEMINATING SEED.

The program of addresses contained the names of several well-known corn growers and seed experts, most prominent among which was that of Prof. R. A. Moore, of Wisconsin. Prof. Moore, in his address on Curing, Testing and Dissemina-

plot adopted.

In corn breeding the ear-to-row method of selection is adopted. Four standard varieties of Wisconsin corn were bred up, and two, Golden Glow and Wisconsin No 7, selected. Five hundred corn plants are marked in the milk stage; three hundred are saved from these and kiln dried in a temperature of 75 to 78 degrees. Another hundred ears are thown out, leaving two hundred ears. All the kernels for row 1 are taken from one ear, and for row 2 from one ear, etc., so that the entire row is from a single ear of corn. Selection is made again the following fall, only taking those rows of a uniformity of type throughout. From this system it was found possible to increase the yield of seed ears three or four times. Prof. Moore placed the value of good seed corn at \$3.00 per bushel, and compared it with the value of ordinary corn at 60 cents a bushel. A variety may be made to double its former yield by breeding work. In Wisconsin the Wisconsin No. 7 variety is now giving 35 to 40 per cent seed ears, while before improvement it did not give more than 8 per cent.

The work of the Wisconsin Experimental Association has had the effect of starting a new seed centre, wherever one of its members is located. It has succeeded in eliminating the inferior variety, because it is a well-known fact that in most sections too many varieties are grown for the good of the farmer and his crops. Seeds are inspected, and, if up to the standard, the member is allowed to use the association tag to sell his produce at a fair price. Prof. Moore believed that the demonstration of these good fields of corn was worth more than all the bulletins that could be published on the subject. He deplored the fact that very often the bright boys of the farm were educated for some other business, while those considered not so clever were kept at home for farmers, and he criticised the old method of sentiment to keep the boys on the farm. You must have more than sentiment, if the bright boys are going to stay on the land. They must have something to make them think,

#### THE FARMER'S ADVOCATE.

and they must have something for it. In this his work with the seed centers had done a great deal. Last year at county fairs in Wisconsin, fifty-two contests in fifty counties were carried on for children, and 26,000 boys and girls took part. Prof. Moore cited cases where young lads trained in this way were now selling from 100 to 500 bushels of seed corn yearly, and some of the young farmers in the seed centres were salling as high as \$20,000 each of seed grain. His addresses were listened to with a great deal of interest by a large and enthusiastic audience.

In the absence of C. F. Bailey, Assistant Deputy Minister of Agriculture, Fred Forsyth, B. S. A., exclained the moving pictures relating to agriculture. John T. Minar, of Kingsville, gave an address on birds.

An interesting feature of the Show was the Judging Competition for boys, which was conducted by Prof. R. A. Moore, and Prof. C. A. Zavitz. In describing this work, Prof. Moore went into the score-card, and explained to the boys that they would judge corn much the same as they would judge live stock, as to size, conformation, uniformity, type, etc. About a dozen boys took part in the first day's competition.

S. J. Moore, Representative of the Seed Branch of the Dominion Department of Agriculture, spoke for a short time on the production of corn in Nova Scotia. That Province, Mr. Moore stated, would require a variety of corn which would produce 15 tons of silage per acre. The corn should mature sufficiently to make a good quality of silage. Some few experiments, the speaker said, have been conducted with good results. On the college farm at Truro some varieties of Flint corn, and at least one of Dent corn, have been produced.

In the absence of the Seed Commissioner, G. H. Clark, the question of Seed Corn Control was dealt with by E. D. Eddy, of Ottawa. In in-troducing the subject Mr. Eddy mentioned that not a few samples of seed corn failed to give matisfaction, both with respect to general quality and germination. Some lots, for which a high price is paid, might be included in this list. A Seed Corn Control Agreement, as outlined by the Seed Commissioner, intended to protect growers and purchasers of high-clars seed corn, was pre-

At the annual business meeting of the Association the Seed Corn Control Agreement was read to the members in attendance. At the conclusion of the discussion a resolution was passed approving of the proposal.

SEED CORN CONTROL AGREEMENT.

Any corn sold under the Agreement is thereby subject to inspection and test by the Seed Branch of the Department of Agriculture for Canada, and to guarantee the quality to purchasers under the following terms:

1. The name of the variety and the grade of seed corn shall be given when advertising and giving quotations; shall be indicated on shipping invoices, and shall be exhibited on the crates or sacks containing seed corn, or on tags recurely attached thereto.

2. Each crate or sack containing seed corn sold on the ear, or the tag attached thereto, shall, before leaving the possession of the grower, be marked with the name of the variety, and one of three grades: Extra No. 1, No. 1, No. 2. 3. The standards of quality for the grades shall be as follows: (a) Extra No. 1 seed corn shall consist of corn on the ear, containing at least 45% of sound, well-developed ears that are uniform and typical specimens of the variety named; it must be carefully selected and be cured in a special corn-drying house, or by some other approved method as distinguished from the ordinary corn crib; and the germination on the basis of the average of ear test, must not be less than 90%. (b) No. 1 seed corn shall consist of corn on the ear containing at least 90% of sound ears that are reasonably uniform and typical specimens of the variety named; and the germination, on the basis of the average of ear test, must be (c) No. 2 seed corn shall consist of corn on the ear containing at least 85% of sound ears of the variety named; and the germination, on the basis of the ear test, must be not less than 85%. The Department of Agriculture, through its seed laboratories and inspectors, will render all possible assistance in sampling and testing seed, but the grower shall be responsible for correct marking on the crates or sacks containing the seed corn, or on the tags attached thereto. 5. All "controlled" seed corn will be subject to inspection and sampling by seed inspectors or purchasers. If the marking on a lot is questioned, a representative crate or sack will be taken as a sample. All samples shall be taken in the presence of one witness. The samples shall be sent to a sed corn referee who shall be named by the Seed Commissioner of the Department of Agriculture for Canada. after making such investigation as he may deem necessary to decide whether the corn at the time of shipping was wrongly branded, will decide the grade on the basis of general appearance, quality, and the germination test.

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A sample for official grading must be taken by an inspector or purchaser within seven days from the time the shipment is received by the purchaser, and when sent to the referee for grading shall be accompanied by a statement signed the witness, and the person taking the sample, by giving the name and address of the grower, the name and the variety of the corn, the grade mark on the packages, or tags attached thereto, and the number of crates or sacks in the lot. A seed inspector may sample the shipment anywhere in transit, as under the Seed Control Act.

7. A blank form to be used when sending samples to the referee for official grading, if the quality is suspected, together with a copy of the terms of this agreement of sale, shall be sent by the grower to the purchaser with every shipment of seed. These forms will be supplied by the Seed Commissioner of the Department of Agriculture for Canada.

8. In case the sample sent for official test is given the same grade as it was marked by the grower, the referee shall first notify the sender of the sample only. If, in the opinion of the referee, the seed is lower in quality than standard of the grade marked, the grower only shall first be notified.

9. An appeal from the grading by the referee will be considered, provided that the appeal, if from the grower, reaches the referee within ten days from the time the report was mailed to him, and that the appeal, if from the purchaser or inspector, reaches the referee within fourteen days from the time the report was made.

10. Appeal cases will be placed before a Board of Appeal to be composed of three members, two to be nominated by the growers, and one by the Seed Commissioner of the Department of Agriculture for Canada.

11. In case an appeal is lost, the expense of convening the Board will be borne by the person making the appeal. If the appeal is sustained, the expense will be met by the Department of Agriculture for Canada.

12. At the expiration of the time limit for appeal, or when decision is given on appeal cases, reports on samples that have been graded lower than they have been marked, will be mailed to the persons who sent the simples, and the growers will be notified to make settlement in accordance with the terms defined in the two following paragraphs:

13. In case the sample sent for examination by an inspector or purchaser is lower in grade than it was marked, settlement shall be made on the following basis :

(a) If the purchaser is willing to accept the under the grade given by the referee or seed Board of Appeal, an allowance in price will be

# Ontario United Farmers in Annual Session.

The second annual convention of the United agriculture after the war, unless farmers organize Farmers of Ontario, and the second annual Share- themselves and are prepared to meet the conholders' Meeting of the United Farmers' Co-operative Co., Ltd., were held in Toronto,

(b) If the purchaser does not wish to accept the seed on the basis of the lower grade he may return the whole lot in question, the grower to pay transportation charges both ways, and promptly refund any money that may have been paid,

14. Settlement for samples sent for official test shall be made as follows : (a) If the sample sent for test conforms to the grade marked, the person from whom the sample was received will lose the sample and bear the cost of shipping it for test. (b) If the sample sent for test does not conform to the grade marked, the grower who sold the seed will loss the sample and bear the cost of shipping.

15. The Seed Commissioner of the Department of Agriculture for Canada will publish an alphabetical list of the growers who are selling controlled seed, which will be distributed to ensilage growers, and otherwise advertised.

16. This agreement with the grower may be cancelled at any time if, in the opinion of the Seed Commissioner of the Department of Agriculture for Canada, based on the report of the referee, the grower is not fulfilling his obligation. A third offence in shipping seed not properly marked will be sufficient for cancellation. tion.

#### ONTARIO'S CULTIVATED CROPS.

Professor C. A. Zavitz, of the Ontario Agricultural College, outlined the growing of cultivated crops in Ontario, especially in the southern part of the Province. In 1915 there were 758. 509 acres of corn in Ontario, while potatoes were grown to the extent of 178,934 acres, and root crops were about as extensive as potatoes. There were 62,836 acres of beans produced, making a

total of 1,163,858 acres, valued at \$35,000,000. Investigations carried on at the College and on farms showed than an exceedingly small percentage of corn will comply with the standard established in regard simply to length of ears, circumference of ears, and number of rows.

Prof. Zavitz urged bean growers to select plants in the growing field, believing it would be one of the best sources of supplying good sted. Considerable work in connection with bean anthracnose had been carried on at the College. In connection with field roots Prof. Zavitz stated that seed of good quality could be produced in this country, and home-grown seed gives better yields than imported seed. Reference to potato varieties was made, recommending the same varieties as brought out in our report of the meeting of the Agricultural and Experimental Union, published in our issue of Jan. 20.

Office's elected were : Hon. President, Byron Robinson; President, Robt. Knister; First Vicemade corresponding to the difference in the quota- L. D. Hankinson; Secretary, J. W. Noble; tion of the two grades at the time of the sale; or, Treasurer, J. H. Coatsworth.

> tingencies incident upon the outcome of the con The former speaker prophesied that woflict. man labor would be common in the fields in 1916, and he could not see anything but poor crops ahead for 1916 and 1917. He also predicted an increase in tariff, which would only take more dollars out of the producer and put them in the pockets of manufacturers. Mr. Drury forecasted a bankrupt world when the war is over, and stated that farmers must represent citizenship in the reconstruction. Farm organizations must extend themselves. They may have to go so far as to go into the manufacturing business, and to form an industrial commonwealth. He emphatically stated that militarism, which has crushed the individual, in the Central European powers, must not be could in America. In his opinion the real fight will commence when peace is made, and it will be then that the hope of the country will lie in the farmer. F. C. Hart, Director of the Co-operation and Markets Branch of 'the Provincial Government, gave an interesting address, in which he pointed out the need for organization on a proper basis. He cited cases where fruit growers had difficulty in selling their fruit, because they put the selling off till the last minute, and attempted to do it while the fruit train was being loaded at their station. While such growers found it difficult to dispase of their fruit at a fair price, other markets were not getting fruit enough to supply the trade. Mr. Hart cited the case of the work of the Manitoulin Island Wool Growers' Association, already described through columns. He advised that no farm organization these should be started where there is a poor business opening. He also believed that the men forming associations should be selected carefully, so that little trouble as possible worked in afterwards. Small organizations he deemed advisable, and he advised no organization to start without plenty of capital, and a competent and efficient manager is absolutely necessary. He also threw out a very good hint when he mentioned the fact that a co-operative company should at-

FOUNDED 1866

February 2, 3 and 4.

The financial statement of the United Farmers' Co-operative Co. Ltd., showed that a good year's business had been done. Nearly one-third of a million or over three hundred thousand dollars' worth of business was done during the year, in a Company whose capitalization limit is \$10,000, of which less than \$5,000 was subscribed. has been demonstrated that it is possible for this Farmers' Company to do a large business on a sound basis, but the Company found it necessary that more of the authorized stock be subscribed, and considerable of this was taken at the meeting.

The Board of Directors elected for 1916, is composed of the following: B. C. Tucker, Harrowsmith; E. C. Drury, Barrie; C. F. Whittaker, Williamsburg; Geo. Carlaw, Warkworth; A. A. Powers, Orono; W. C. Good, Paris; Anson Groh, Preston; John Z. Fraser, Burford; John Pritchard, Gorrie; S. A. Beck, Cayuga; C. W. Gurney, Paris; and L. Schnurr, Shallow Lake.

A number of interesting addresses were given by men who are directly connected with the United Farmers or with the Co-operative Company, including addresses by Anson Groh, John Tolmie, L. H. Blatchford, J. J. Morrison, John Z. Fraser and others. One of the best addresses of the entire convention was delivered by T. A. Crerar, of the Grain Growers' Grain Co., Winnipeg, Man.

The addresses showed clearly that there are difficulties to overcome in organizing formers where the capital must necessarily be held by so many different men, often living far apart. was contrasted with joint stock companies where most of the capital is held by a few men who control the business. It was shown clearly that the farmer must enter the field of co-operation, and that any company to be a success must have plenty of funds to carry on the work.

W. L. Smith, of Durham County, and E. C. Drury painted a rather dark picture of Canadian

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re: Hon. President, Byron Robt. Knister; First Vice-gory; Second Vice-President, Secretary, J. W. Noble; t'sworth.

al Session.

war, unless farmers organize repared to meet the con-

#### **FEBRUARY 10, 1916**

tend strictly to business, and leave matters of religion, politics, woman suffrage, prohibition, etc., to other meetings.

A number of resolutions were brought in. One extending the sympathy of the organization to the family of the late John Hyatt. Among the others were the following: A resolution commending the Principle of the

Initiative and Referendum.

A resolution asking the Dominion Government to enact legislation at the present sossion, to prevent the manufacture and sale of liquor in Canada until three years after the war is concluded, and that the privilege to manufacture and sell liquor in this country should then be granted only on the vote of the people.

Another resolution passed was one asking that the Federal Government reduce all duties against British imports.

A committee is to be appointed to investigate the organization of agricultural co-operation, especially co-operative credit organizations. The committee is to report not later than Oct. 1, 1916, and each branch of the organization is to get a copy of this report.

A resolution relating to recruiting was passed, in which it was recommended that local committees in each district be approached with competent agricultural representatives thereon to decide whether or not it was the duty of young men in the neighborhood to enlist, and to those who are believed to be doing their duty at home some badge of recognition should be given.

With regard to the marketing of live stock through the Association, E. C. Drury advised the local organizations to market their stock through the Central commission man on the Toronto mar-Arrangements are to be made to have a ket. man on the Montreal market also. In Mr. Drury's opinion the drover system of selling stock is out of date. To his mind the drover is un-necessary, and live stock should be sold through the Central. He recently shipped a carload of stock, including 34 lambs and 28 hogs, to Toronto, and after paying all expenses in connection with the sale of same he had a not profit of \$23.71 over and above the price which he was offered by the drover at his home station; and the price he was offered was higher than that paid to some of his neighbors, who had equally good stock. It cost \$33.35 to market the carload, which netted Mr. Drury \$897.58 through the Association. It is perfectly safe to ship the stock direct to the market, and have it sold by the Association commission man. This looks to be one of the best features of the organization.

As a suggestion to those in charge of the work, we would advise that they pay more attention to their program in the future, and that when a man is on the program to speak, his address may be given without almost innumerable interruptions, as was the case this year. No man can do his best on the platform, when, every few minutes, he is stopped over some trivial matter. One of the greatest mistakes in a meeting of this kind is re-arranging the program at the last minute, and allowing speakers who are not on the pro take up more time than those who are expected to give the addresses. We would suggest that the different subjects be discussed, as advertised, by competent men, and the meeting thrown open for two or three-minute addresses by those who wish to speak. No speaker can do homself or his subject justice while his hearers are deciding how they shall vote in connection with the election of officers. We just throw this out as a hint to the management of the organization. The United Farmers of Ontario should grow into a great organization if all branches of Ontario agriculture get behind the movement and push. It needs the fruit growers, it needs the live-stock men, it needs the men engaged in all the branches of agriculture in Ontario. And if it is to do its best work, it should confine itself to agriculture; should be careful about the resolutions brought before the meetings, and should see that they are thoroughly considered before they are rushed through. In short, the organization should be sure of its ground, and then go ahead. The officers elected for the United Farmers of Ontario were: President, R. H. Halbert, Melancthon; First Vice-President, A. J. Reynolds, Solina: Second Vice-President, W. C. Good, Paris; Directors: W. H. Hunter, Varney; E. C. Drury, Barrie; L. H. Blatchford, Drumbo; E. A. Van Allen, Aultsville; J. Z. Fraser, Burford.

# THE FARMER'S ADVOCATE.

The Canadian Sale of Shorthorns. At the Union Stock Yards, West Toronto on

Wednesday, February 2nd, 1916, a large number of stockmen assembled for the Annual Consignment Shorthorn Sale, which is conducted under the manager-ship of Robert Miller, Stouff ville, Ont. The Prairie Provinces were well represented by buyers, and several patrons of the breed from the East were present. Ontario breeders, however, made up the major part of the attendance, and fortunately for the Province the animals that commanded the high prices were retained at home. The 58 head sold were chosen from the following breeders' herds: Robt. Miller, Stouffville; J. A. Watt, Elora; Kyle Bros., Drumbo; John Miller, jr. Ashburn. On the whole, the quality of stock offered was superior to that which made up the sale last year and the prices were better. It was indeed a good sale, and many excellent animals, both male and female, changed hands. This annual event has established a reputation which attracts a great number of men who come prepared to buy stock. The highest bid of the sale was that placed on Village Rose a yearling heifer contributed by J. A. Watt. This animal was sired by Gainford Ideal, making her a grand-daughter of Gain-ford Marquis. She covered the show circuit in 1915 with honorable results. J. Watt and Son of Salem were the buyers. Another heifer, Princess Maud's Last, in calf to Gainford Marquis, was purchased by Pettit Bros., Free-man, Ont., for \$560. The highest priced bull was Cupbearer, one of Kyle Bros' consignment. This young bull, which was exhibited last season and just past his first birthday, went to John Strachan of Pope, Man., for \$505. Another good bull which elicited brisk bidding was Oak Bluff Monarch, which cost J. M. Gardhouse, Weston, \$435. As on former occasions, the sale was well conducted, with Capt. T. E. Robson and George Jackson as auctioneers. Following is a list of the animals selling for \$100 or over with their purpherence. animals selling for \$100 or over, with their purchasers: FEMALES.

\$230

150

315

210

145

195

270

155

215

305

200

230

180

1.10

200

125

350

100

505

105

435

170 215

300

140

| I LIVIILLO.                                    |       |
|--|-------|
| Fame's Bloom, R. Cumings, Elora                | \$230 |
| Matilda 4th, M. Abercrombie, Meaford           | 170   |
| Village Rose, J. Watt & Son, Salem             | 650   |
| Eliza Royal, J. E. Dolphin, Tara               | 150   |
| Roan Lady 10th, G. Roberts, Elora              | 255   |
| Glen Buell Clipper 2nd, A. G. Farrow, Oakville | 315   |
| Glen Buell Clipper 8th, Harry McGee, Islington | 210   |
| Miniature Adair, C. D. Logan, Bobcageon        | 205   |
| Orange Lady 5th, Geo. Ferguson, Salem          | 400   |
| Estelle /th, Harry McGee                       | 285   |
| Golden Flash, Harry McGee                      | 325   |
| Scottish Primrose 4th, W. D. Dyer, Oshawa      | 330   |
| deal Lady, E. W. McConnell, Hamiota, Man       | 315   |
| Lady Lind 8th, Harry McGee                     | 105   |
| Crimson Fuschia 28th, G. Roberts               | 235   |
| Emma, E. H. Carnahan, Meaford                  | 325   |
| Clara C. 4th, J. G. Barron, Carberry, Man      | 180   |
| Claret Princess 18th, Pettit Bros., Freeman    | 110   |
| Princess Mayflower, W. A. Dryden, Brooklin     | 220   |
| Roan Lass, J. E. Morden, Cainsville            | 235   |
| Aina Princess 5th, W. C. Vanderwater & Son     |       |
| Foxboro.                                       | 175   |
| aura Buckingham, Pettit Bros                   | 205   |

Canterbury Belle, Jas. Forgey, Foxboro..... Princess Maud's Last, Pettit Bros..... Lady Dorothy Rose 2nd, J. G. Barron. Cresent Mayflower, E. H. Carnahan. Yearling heifer, Geo. Kirkpatrick, Oro Lady Ythan 2nd, T. Baker, Solina. Walnut Missie 5th, Harry McGee... Heifer calf, E. Brien & Son, Ridgetown. Glen Buell Mildred 8th, Herb. Lee, Highgate ..... Glen Buell Mildred 9th, C. D. Logan, Bobcageon in public policy. Socially, everything depends on what Lady This or Mrs. That may be doing or proposing to do. In all their activities city people are depending on the leadership of others. No one seems able to do things alone. There must be a "movement" of some kind in order to accomplish anything. In the country it is different. Everything is keyed to Nature rather than to man. The sunrise and sunset, the winds and the storms affect our actions. Our plans are made to conform with the seed-time and the harvest, and every man makes his plans independently of others. In the cities I felt that if the sun did not rise, some people would merely remark on the fact and then turn on the electric light and go on with "Business more than usual." But if the sun did not arise with us, and if the seed-time and harvest did not come, our world would be at an end; and because the lives of the people in the country are learned to the court are because in the country are keyed to the great serene phenomena of Nature, their lives are more serene and vital.

Another thing that struck me in the city was the almost complete disappearance of the individual in business. Practically every man I met was either an official or an employee of a corporation. And the corporations with which they were connected were all prospering because of the business activity due to the war. When Sir John Williesen stated that it would be When Sir John Willison stated that it would be a disgrace for any man to be richer at the close of the a disgrace for any man to be richer at the close of the war than he was at the beginning, I am afraid he did not give sufficient consideration to modern business methods. When business is conducted by corporations, their chief end is to make money, and it is practically impossible to place the blame on anyone if the money-making is disgracefully large. You cannot successfully bring home disgrace to a corporation. If a man hap-pened to be a shareholder in a company, that has made large profits on account of the war, you cannot blame him if he receives larger dividends or if the value of his stock goes up, any more than you can blame a farmer stock goes up, any more than you can blame a farmer if he happens to get a better price for his grain. In spite of Sir John Willison's remark, many men are sure to be enriched because the corporation from which they derive profits has been successful in its enterprises. they derive profits has been successful in its enterprises. The corporate idea in business has, to a large extent, removed business from the control of conscience. A group of men, all of whom are nicely conscientious in their personal dealings with their fellows, may form a corporation that will not show a trace of conscience, and they will all hold themselves guiltless. Besides pro-moting more efficient business methods, a corporation enables those who profit by it to avoid responsibility. In all the accusations that have been made in parlia-ment and out of it regarding war profits, grafting and other illicit means of accumulating wealth, it is very noticeable that few individuals have come in for direct noticeable that few individuals have come in for direct censure. In almost every case it was a corporation that did the grafting or crooked business. This leads me to believe that when the Author of Evil finally settles down to business he will stop acting as an indi-

settles down to business ne will stop acting as an indi-vidual and organize the Subterranean Heating Com-pany, or some similarly attractive, corporation. He will put in Mammon as General Manager, with Beelze-bub, Moloch, Belial, The Kaiser, Sir Jingo McBore, Senator Redneck, and other notables, on the Board of directors. He will content himself with holding a controlling interest in the stock and will settle down in a fashionable suburb to live an admired and respect 560 230 in a fashionable suburb to live an admired and respect-able life. He will cover his horns with a plug hat, his tail with a frock coat and his hoof with patent leathers 200 and spats. And he will never be behind in his tithes
of mint, anise and cummin while the work of corrupting
the world is being vigorously pushed by the corporation
which he controls, but for whose conduct he can deny
all legal responsibility. Really, we have not yet developed the corporation to its highest, or lowest, limit,
though we have done very well. Most of the evils of
which we complain are due to the operations of corporations, while the men who control them and profit by
them are such nice fellows personally that one cannot and spats. And he will never be behind in his tithes them are such nice fellows personally that one cannot quarrel with them, especially as they can show with such pathetic earnestness that they are not to blame. I am wondering if one of the after-effects of the war will be the control of corporations, so that we can live with them on neighborly terms.

223

outcome of the coneaker prophesied that wocommon in the fields in and 1917. He also pre-tariff, which would only of the producer and put manufacturers. Mr. Drury world when the war is t farmers must represent astruction. Farm organizaselves. They may have to to the manufacturing busiindustrial commonwealth. ed that militarism, which dual, in the Central Euronot be covid in America. fight will commence when will be then that the hope in the farmer.

r of the Co-operation and ne Provincial Government, dress, in which he pointed ization on a proper basis. ruit growers had difficulty ecause they put the sellinute, and attempted to ain was being loaded at uch growers found it diffieir fruit at a fair price, getting fruit enough to Hart cited the case of the Island Wool Growers' Asescribed through these hat no farm organization e there is a poor business eved that the men forming selected carefully, so that osslible worked in afterations he deemed advisorganization to start al, and a competent and lutely necessary. He also hint when he mentioned tive company should at-

#### Ontario Vegetable Growers in Session.

The annual meeting of the Ontario Vegetable Growers' Association was held in Toronto on January 31. After the regular business incident to the annual convention was transacted, the following officers were elected : President, F. F. Reeves, Humber Bay, Ont.; First Vice-President, dent, E. K. Purdy, Kingston, Ont.; Second Vice-Presi-dent, E. K. Purdy, Kingston, Ont.; Secretary-Treasurer, J. Lockie Wilson, Toronto. Executive Committee: F. F. Reeves, J. Lockie Wilson, J. J. Davis, E. K. Purdy, and Thos. Delworth.

#### MALES

Wedding Master, Jas. McIntosh, Seaforth. Golden Prince, J. W. Sinclair, Tara. Lovely King, Hon. Peter Talbot, Lacombe, Alta. Grand Sultan, W. H. Hartin, Twin Elm... Jack, Hon. W. C. Sutherland, Saskatoon. Jack, Hon. W. C. Sutherland, Saskatoon..... Claret Prince, J. L. Walters, Clive, Alta..... Golden Sultan, Jas. Crerar, Chesley Station.... Lavender Master, Ratcliffe Bros., Stouffville.... Lavender King, W. M. Sutherland, Walters' Falls Lord Buckingham, Emerson Nye, Nanticoke... Lind Gold Finder, Wm. Martin, Inglewood.... Sultan Stamford, E. B. McKinnon, Rockwood.... Prince Robert, J. Bosfield, McGregor, Man.... Sea Gem's Pride, Kyle Bros., Drumbo... Broadbooks Elect 2nd. T. L. Mercer, Markdale Broadhooks Elect 2nd, T. L. Mercer, Markdale.... Cupbearer, John Strachan, Pope, Man..... Sittyton Seal, W. C. Wilson, Locust Hill..... Oak Bluff Monarch, J. M. Garhdouse, Weston .... Mina Prince, Geo. A. Bateman, Aurora. Wesward Ho 2nd, J. G. Barron. Scotch Diadem, C. A. Archibald, Truro, N. S. Kilblean Secret, R. E. Coulthard, St. Mary's.....

#### The Subterranean Heating Co. BY PETER MCARTHUR.

Although I have lived in both the city and the country, the difference between the two never came home to me so forcibly as during the past month. During the past few weeks I have spent about as much time in one as in the other, and have had a chance to compare the point of view of city men and country men. In the cities they are keyed up to an almost feverish excitement. In many lines they are having not only "Business as Usual," but more business. But business is not the only department where the pace has been increased. The social pulse is beating high, and apparently people must have something going on every In business everything depends on what this minute. man or that man may do and what changes may occur

#### Plowmen's Annual Meeting.

The local branches of the Plowmen's Association were practically all represented at the an-nual meeting of the Ontario Plowmen's Association, held in the Canadian Forester's Hall, Tor-onto, Feb. 8. Very successful plowing matches were held by the local associations during the past year, and the Ontario Provincial Match, held at Guelph last November, was considered the biggest, from the standpoint of competitors and visitors, ever held in Canada. It was the opinion of the meeting that the organization is destined to be of high educational value to farmers and farmers' sons. Plans were made whereby the Association would furnish an expert plowman to assist at plowin; de non trations arranged for by the District Representatives of the Department of Agriculture. One hundred and forty dollars, collected by the Association at the Provincial Match, was forwarded to wounded Canadian soldiers at Folkestone, England.

Following are the officers: President, Wm. Doherty, Eglinton: First Vice-President, L. Smith, Millbrook; Second Vice-President, N. W. Malloy, Woodbridge; Secretary, J. Lockie Wilson, Toronto; Treasurer, T. A. Patterson, Ellesmere. Executive : F. Weir, Agincourt; J. McLean, Richmond Hill; W. C. Barrie, Galt: Wm. Doherty; L. Smith; N. W. Malloy; J. Lockie Wilcon.

#### THE FARMER'S ADVOCATE.

# Toronto, Montreal, Buffalo, and Other Leading Markets

#### Toronto.

224

Receipts at the Union Stock Yards, West Toronto, on Monday, Feb. 7, were 111 carloads, comprising 2,240 cattle, 439 hogs, 271 sheep, 93 calves, and 5 horses. Quality of cattle good; trade active; prices firm, at last week's close. Choice heavy export steers, \$7.70 to \$8; good butchers', \$7 to \$7.50; cows, \$5.50 to \$6.70; bulls, \$5 to \$7; stockers and feeders, unchanged; milkers, \$60 to \$95; calves, \$5.50 to \$11; sheep, \$6.50 to \$8.50; lambs, \$10 to \$12.50; hogs, \$10 to \$10.10.

REVIEW OF LAST WEEK'S MARKETS The total receipts of live stock at the City and Union Stock Yards for the past week were :

|        | City. | Union. | Total. |  |
|--------|-------|--------|--------|--|
| Cars   | 28    | 343    | 371    |  |
| Cattle | 189   | 3,213  | 3,402  |  |
| Hoga   | 617   | 6,381  | 7,001  |  |
| Sheep  | 254   | 788    | 1,042  |  |
| Calves | 20    | 425    | 445    |  |
| Horses | 19    | 1,883  | 1,902  |  |
|        |       |        |        |  |

The total receipts of live stock at the two markets for the corresponding week of 1915 were :

|        | City. | Union. | Total. |
|--------|-------|--------|--------|
| Cars   | 29    | 259    | 288    |
| Cattle | 810   | 3,093  | 3,408  |
| Hogs   | 409   | 6,221  | 6,630  |
| Sheep  | 478   | 677    | 1,155  |
| Calves | 20    | 287    | 307    |
| Horses | 40    | 525    | 365    |
|        |       |        |        |

The combined receipts of live stock at the two markets for the past week show an increase of 83 carloads, 371 hogs, and 138 calves; but a decrease of 1 in cattle, and 113 sheep, compared with the corresponding week of 1915.

The receipts for the past week were the smallest for many months. On the closing day only 186 cattle of all classes were consigned, which hardly made a market. Owing to the mild weather early in the week, the values were just steady with the previous week's close, very few head going over \$7.50 per cwt. During the closing days prices advanced 10c. to 15c., and trade recovered a little from its sluggishness, but the advance was evidently due to the remarkably light run, and not to any demand on the part of the buyers. Good grades of stockers and feeders are active and strong, and feeders weighing 800 to 1,000 lbs., sold at \$6.60 to \$7, and breedy yearlings at \$6.50 to \$6.75. per bag, \$1.75, Montreal freights.

Veal Calves .-- Choice at \$10 to \$11.25; good at \$8 to \$9.50; common and light at \$5.50 to \$7.50; heavy fat calves at \$7 to \$8.50.

Sheep and Lambs .-- Light sheep, \$7.75 to \$8.75; heavy and common sheep, \$4.50 to \$7.50; lambs, \$10 to \$12.50; cull lambs, \$7 to \$8.50.

Hogs .- Selects, fed and watered, \$10 to \$10.15; 50c. is being deducted for heavy, fat hogs, and thin, light hogs; \$2.50 off for sows, and \$4 off for stags, from prices paid for selects.

#### BREADSTUFFS.

Wheat .- Ontario, No. 2 winter, per car lot, \$1.13 to \$1.15, according to freights outside; slightly sprouted and tough, \$1.09 to \$1.13, according to sample; sprouted, smutty and tough, \$1.02 to \$1.07; feed wheat, 90c. to 95c., according to sample. Manitoba, No. 1 northern, \$1.251, in store, Fort William; No. 2 northern, \$1.23, in store, Fort William; No. 3 northern, \$1.201, in store. Fort William. Oats .- Ontario, No. 3 white, 44c. to

45c., according to freights outside; commercial oats, 43c. to 44c.; No. 2 Canada Western, 45c., in store, Fort William; No. 3 Canada Western, 444c., in store, Fort William; Extra No. 1 feed, 424c., in store, Fort William; No. 1 feed, 414c., in store, Fort William.

Rye.-No. 1 commercial, 93c. to 95c. according to freights outside; rejected. S3c, to 85c., according to sample. Buckwheat .-- Nominal; car lots, 78c. t

79c., according to freights outside. Barley .- Ontario, good malting, 64c. to 66c., according to i freights outside; feed barley, 57c. to 60c., according to freights

outside. American' Corn .- No. 3 yellow, new, 831c., track, Toronto. Canadian Corn.-Feed, 76c. to 77c.,

track, Toronto. Peas.-No. 2, \$1.80; sample peas, ac-

cording to sample, \$1.25 to \$1.75. Flour.-Ontario, winter, \$4.90 to \$5.10,

according to sample, prompt shipment. Manitoba four-Prices at Toronto were First patents, \$7.20; second patents, \$6.70, in jute; strong bakers', \$6.50, in jute; in cotton, 10c. more.

HAY AND MILLFEED.

Hay .- Baled, car lots, track, Toronto, No. 1, \$18 to \$18.50; No. 2, \$14 to \$14.50, per ton, track, Toronto. Straw.-Baled, car lots, \$6.50 to \$7,

track, Toronto. Bran.-\$24 per ton, Montreal freight; shorts, \$25, Montreal freight; middlings, \$26, Montreal freight; good feed flour,

#### Montreal.

Live Stock .- The market for cattle was firmer last week. Prices quoted on the market were higher, but this was due, in part, to the better quality of cattle offered. Supplies, however, continued quite small, and demand showed some improvement, particularly towards the end of the week, when the weather was cooler and more favorable. Some choice steers are said to have sold as high as 84c. per lb., the price ranging from that down to Sc. Good steers sold at 74c. to 7%c., while the lower grades ranged all the way down to 51c. per lb. Butchers' cows sold at 41c. to 41c., and bulls at 51c. to 7c. Supplies of lambs were barely sufficient to meet demand, and prices held quite firm, with Ontario lambs selling at 101c. to 101c. per lb., and Quebecs 94c. to 10c. Sheep ranged from 61c. to 7c. per lb. There was a good demand for all the calves offered. The number on the market was not large, and milk-fed stock sold readily at 10 to 11c. per lb., while grass-fed brought 51c. to 6c. per lb. There was a good demand for hogs, and prices held moderately steady, although the top figure of the week was not available, selects were quoted at 10 tc. per lb., weighted off cars.

Horses .- Prices held about steady, as follows : Heavy draft horses, weighing 1,500 to 1,700 lbs., \$200 to \$250 each; light draft, 1,400 to 1,500 lbs., \$150 to \$200 each; small horses, \$100 to \$125, and culls, \$50 to \$75 each. Fine saddle and carriage animals were quoted at \$200 to \$250 each.

Dressed Hogs .- There was no difficulty in disposing of all the dressed hogs offered. Sales of abattoir-dressed, freshkilled stock were made at  $14\frac{1}{2}c$ .  $t_0$   $14\frac{3}{4}c$ , per lb., while country-dressed, lightweight hogs, sold at 131c. to 141c. per pound.

Poultry .-- Prices showed practically no change. Choice turkeys were quoted at 26c. to 28c., and good stock at 24c. to 26c. Chickens brought 22c. to 26c. per lb., and geese and fowl 17c. to 20c. per lb., while ducks were 19c. to 20c. per lb. Potatoes .- The market continued very firm, and stocks were light, both here and in the United States. Best stock was quoted at \$1.85 to \$1.90 per bag of 90 lbs., carload, ex-track, while in a smaller way sales were made around \$2.10.

Honey and Maple Syrup .-- The market for honey was quite dull, and prices yearlings, prime, \$8 to \$8.75; yearlings, common to good, \$7 to \$7.75.

FOUNDED 1866

Cows and Heifers .- Prime weighty heifers, \$6.75° to \$7; best handy butcher heifers, \$6.75 to \$7.25; common to good, \$4.50 to \$6.50; best heavy fat cows, \$6 to \$6.25; good butchering cows, \$5.25 to \$5.75; medium to fair, \$4.75 to \$5; cutters, \$3.75 to \$4.25; canners, \$3 to \$8.60.

Bulls.-Best heavy, \$6.50 to \$6.75; good butchering, \$6 to \$6.25.

Stockers and Feeders.-Best feeders, \$6.25 to \$6.50; common to good, \$5.50 to \$6; best stockers, \$6 to \$6.25; common to good, \$4.50 to \$5.75; good yearlings, \$6 to \$6.50; common, \$4 to \$4.75. Milkers and Springers .-- Good to best, in small lots, \$75 to \$85; in carloads, \$60 to \$70; medium to fair, in small small lots, \$45 to \$55; in carloads, \$45 to \$50; common, \$30 to \$40.

Sheep and Lambs .- Market on lambs last week was pretty uniform. Monday tops sold up to \$11.35; Tuesday's market was steady, and Wednesday, Thursday and Friday a few choice loads reached up to \$11.50. Cull lambs mostly \$10.25 down, and top for yearlings was \$10. Sheep were a quarter lower the fore part of the week, and Friday the loss was regained, sheep quotations for Friday being as follows: Choice wethers, \$8 to \$8.25; mixed sheep, \$7.75 to \$8, and ewes, \$7.50 to \$7.75, with a few \$7.85. Receipts last week totaled around 18,500 head, being against 17,845 head for the week previous, and 80,100 head for the same week a year ago.

#### Chicago.

Cattle.-Beeves, \$6.40 to \$9.60; cows and heifers, \$3.20 to \$8.25; calves, \$8 to \$11.

Hogs.-Light \$7.50 to \$8; mixed, \$7.60 to \$3.05; heavy, \$7.60 to \$8.05; rough, \$7.60 to \$7.70; pigs, \$6 to \$7.15. Sheep and Lambs .- Sheep, mative, \$7.60 to \$8.15; lambs, native, \$8.50 to \$11.25.

#### Gossip.

Attention is directed to the advertisement in this issue, page 234, of the Mutual Life Assurance Company. This company had an excellent year.

Attention is directed to the advertisement in another column of a Holstein sale, to be held by W. S. Shearer, Listowel, Ont., Feb. 18.

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|  | This advance was mainly owing to the   |  | comb at 15c. to 16c. for white-clover         |   |
|--|--|--|---|---|
|  | scarcity of good animals. Eastern stock  | Button Price   | comb, and 12c. to 121c. for extracted;        | SALE DAMES OF LESS  |
|  | steers and heifers were sympathetically  | Feingined stationen  | brown-clover comb, 121c, to 131c and          | SALE DATES CLAIMED.   |
|  | higher, going at \$3.25 to \$5.75. Milk-   | the wholesales during the past week.   | extracted, 10c. to 11c.; buckwheat Sc         | Feb. 15Wilbur C. Prouse, Tillson-                                 |
|  | ers and springers were well placed again   | Creamery fresh-made Dound squares 250  | to 9C. Maple syrup was around 950             | burg; Holsteins.  |
|  | last week, selling high for anything good,   | to sec.; creamery, cut 34c to 35c.   | for 8-lb. tins; \$1.40 for 13-lb. tins, while | Feb 16 Nortelle Training  |
|  | the top being \$110 All anything good,   | creamery solids, 34c.; separator dairy,  | maple sugar was about 13c. per lb.            | Feb. 16Norfolk Holstein Breeders'                                 |
|  | the top being \$110. All small meats   |  | Eren It                                       | sale, at Simcoe; W. A. Mason, Simcoe,<br>Secretary.               |
|  | were very strong, and some record prices   | EggsWhile new - laid eggs remained   | EggsIt is said that some American             |   |
|  | were established. These values will  | stationary, selling at 35c. per dozen,   | eggs have been coming into the market         | Feb. 18J. M. Gardhouse, Weston,                                   |
|  | speak for themselves, and may be com-  | there was a firming tendency with lighter  | and, certain it is, that there were larger    | Ont.; sale of Scotch Shorthorns, at                               |
|  | pared with other live-stock trade centers.   | receipts. Cold store and with lighter  | ollerings of fresh - laid stock and that      | Union Stock Yards, West Toronto.                                  |
|  | Choice veal sold up to \$11.25 per cwt.;   | receipts. Cold-storage eggs, 30c. to<br>38c. per dozen.  | prices were easier, at 35c per deres          | Fab 19 W C Ch   |
|  | choice lambs to \$12.50; choice light ewes   | Choose New York  | Select eggs were quoted at 29c to 20c         | Feb. 18W. S. Shearer, Listowel, Ont.;                             |
|  | and wethers to \$8.75, and select hogs to  | CheeseNew, large, 19c.; twins, 194c.   | No. 1 candled at 27c., and No. 2 at           | Holsteins.  |
|  | \$10.15 fed and watered. The receipts in   | per lb.  | 24c. to 25c.                                  | Feb. 18Estate of the late D. J.                                   |
|  | all small stuff were below the demand,   | HoneyExtracted, 111c. to 121c. per   |   | Campbell, Woodville, Ont . Shorthorns,                            |
|  | and prices here steadily advanced, and   | pound; combs, per dozen sections, \$2.40   | ButterThis market was very strong,            | Clydesdales and Shropshires.                                      |
|  | the outlook for the present is that high   | to \$3,  | and supplies were none too large Drices       | Feb. 25 - W I C- Data and   |
|  | values will prevail unless heavy consign-  | BeansPrimes, \$4.20; hand - picked,  | mere min, at 044C. to 35C for finant          | Feb. 25W. J. Cox, Peterboro, Ont.;<br>grade stock and implements. |
|  | ments were in order, but the bad roads   | ₱4.00 per bushel.  | creamery, and about 1c. less for mode         | Fall and implements.  |
|  | in many districts make this almost im-   | Poultry (live weight)Chickens, 14c.  | inte graues, while seconds were available     | Feb. 29Rettie Bros., Burgessville,                                |
|  | possible.  | to 1/c. per lb.; fowl, heavy 14c per   | at orge, to d210, per lb Dainy butter         | Ont.; Holsteins.  |
| ne president de la company |  | ID.; IOWI, light, 11c. to 12c por lb   | nas 290. to 300.                              | March 1Guelph Fat Stock Club sale,                                |
|  | Butchers' Cattle Choice heavy steers   | QUCKS, 14C Dev 1b; manage 10-  | CheeseThe market was unchanged, at            | at Guelph; J. M. Duff, Secretary.                                 |
|  | at \$7.75 to \$8; choice butchers' cattle  | wurkeys, voung 18c to 200 per 1  | 104C. 10 184C. for finest solored and         | March 1 The A   |
|  | at \$7.50 to \$7.73; good at \$7 to \$7.25;  | 15c. to 17c. per lb.   | to. less for white.                           | March 1T. L. Dunkim, Norwich, Ont.;<br>Holsteins.                 |
|  | modium at \$6.50 to \$6.80; common at  | Potatoes Potatoes wore vore  | HayThe market was unchanged -it               |   |
|  | \$6 to \$6.30; choice cows at \$6.25 to  | the wholesales during the past week, but   | carloads of No. 1 hay selling at \$21 per     | March 2Bruce County Stock Breed-                                  |
|  | \$6.50; good cows at \$5.75 to \$6; medi-  | remained stationary in price, the New  |   | Association Annual Consignment                                    |
|  | um cows at \$5.25 to \$5.60; common  | Brunswick Delemany in price, the New   | \$20.50; No. 2 hay, \$20, and No. 3 hay.      | Sale, Walkerton, Ont., N. C. Mackay,                              |
|  | cows at \$4.50 to \$5; canners and cut-  | Brunswick Delawares being \$1.90 per bag   | \$18.50.                                      | Societary.  |
|  | ters at \$3 to \$4.50; light bulls at \$5  | by the car lot. and Ontarios \$1.75 per hag, car lot.  |   | March 9Elias Ruby, Tavistock, Ont.;                               |
|  | to \$6; heavy bulls at \$6.50 to \$7.  |  |   | Holsteins.  |
|  | Stockers and Feeders Choice feeders,   | HIDES AND SKINS.   | Buffalo.                                      | March 10W. J. Isaac, R. R. 1, Balti-                              |
|  | 900 to 1,000 lbs., at \$6.60 to \$7; good  | City hides, flat 18c.; country hides   |   | more, Ont.; pure-bred stock.                                      |
|  | fand and RAD & LUND D - RED R  | conteu, loc.: country hideo unat   |   | March 14East Elgin Breeders' Sale,                                |
|  | stockors 700 to SWA IL at Stranger   | Tot.; country hides oreen 110  | tives, \$8.50 to \$8.80 fair to mod           | at Aylmer, H. C. Mann, Secretary.                                 |
|  | common stocker stocks and hit me   | skins, per 1b., 18c.; kip skips bas 1b   | 00.10 to \$8.00; Dlain \$7.50 to \$7.75       | March 15 Orden Ann, Secretary.                                    |
|  | @4 75 to \$5 05; yourthing this to start   | TOC, SHEPP SKINS \$1.50 to \$2 1   | tery coarse and common, \$6.75 to \$7.        | March 15.—Oxford District Holstein                                |
|  | 1b = -+ \$C 90 += \$C 50   | skins and pelts S1 20 to C1 2-   | Uest Canadians, 98 to \$8.25 fair to          | Breeders' Club Consignment Sale, at                               |
|  | Milkers and Springers - Choice milkers   | hair, per lb., 37c ; horse biller b  | LUCU, St. 20 to \$7.75; common and plate      | Woodstock; W. R. Thomson, Woodstock,                              |
|  | MIRCEN and Springers Choice makers   | \$3.50 to \$4.50. Wcol, washed, 40c. to  | \$6.50 to \$7.                                | secretary.  |
|  | and springers at \$90 to \$110; good cows  | 44c. per lb.; wool, rejections, 33c. to  | Butchoning                                    | March 29Western Ontario Consign-                                  |
|  | at \$70 to \$85; contaion cows at \$15   | 35c. per lb : wool in 16 and 33c. to   |   | ment sale, London, Harry Smith Hav                                |
|  | to \$65.   | 35c. per lb.; wool, unwashed, 28c. to b  |   | ont., Manager.  |
|  |  |  | handy, \$7.75 to \$8.25; common to good,      | April 19James Benning, Williams-                                  |
|  |  |  | \$6.25 to \$7.40; light, thin, \$5.50 to \$6; | town, Ont.: Ayrshires.  |
|  |  |  |   |   |
|  |  |  |   |   |
| 2. HUUMAS STREET   | and the second sec |  | 1   |   |
| e 294  |  |  |   |   |
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Markets

ng gs, prime, \$8 to \$8.75; yearlings, n to good, \$7 to \$7.75.

and Heifers .- Prime weighty heif-3.75° to \$7; best handy butcher \$6.75 to \$7.25; common to good, to \$6.50; best heavy fat cows, \$6 5; good butchering cows, \$5.25 to medium to fair, \$4.75 to \$5: \$3.75 to \$4.25; canners, \$8 to

-Best heavy, \$6.50 to \$6.75; itchering, \$6 to \$6.25.

ers and Feeders.-Best feeders, o \$6.50; common to good, \$5.50 best stockers, \$6 to \$6.25; comgood, \$4.50 to \$5.75; good year-6 to \$6.50; common, \$4 to \$4.75. s and Springers.-Good to best, l lots, \$75 to \$85; in carloads, \$70; medium to fair, in small ts, \$45 to \$55; in carloads, \$45 common, \$30 to \$40.

and Lambs .- Market on lambs k was pretty uniform. Monday d up to \$11.35; Tuesday's marsteady, and Wednesday, Thursd Friday a few choice loads up to \$11.50. Cull lambs most-5 down, and top for yearlings Sheep were a quarter lower part of the week, and Friday was regained, sheep quotations ay being as follows: Choice \$8 to \$8.25; mixed sheep, \$7.75 nd ewes, \$7.50 to \$7.75, with a Receipts last week totaled 8,500 head, being against 17,845 the week previous, and 80,100 the same week a year ago.

#### Chicago.

-Beeves, \$6.40 to \$9.60; cows rs, \$3.20 to \$8.25; calves, \$8

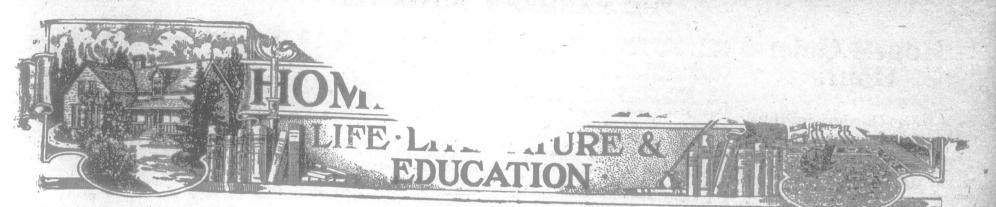
Light \$7.50 to \$8; mixed, \$7.60 heavy, \$7.60 to \$8.05; rough, \$7.70; pigs, \$6 to \$7.15. nd Lambs .- Sheep, mative, \$7.60 lambs, native, \$8.50 to \$11.25.

#### Gossip.

n is directed to the advertisethis issue, page 234, of the ife Assurance Company. This had an excellent year.

n is directed to the advertiseanother column of a Holstein e held by W. S. Shearer, Listo-Feb. 18.

FEBRUARY 10, 1916



#### Ask What You Will.

By Frank Walcott Hutt. Ask what you will, the wise world says; Ask freely what you will of me The grace of knowledge, tength of days, A lease of power and mastery, The praises of an honored name, The seats of splendor and of fame.

Ask what you will; but you must share The struggles of my men of toil, And on my broad arenas dare The contest and the ceaseless moil,

As thousands manfully have done Ere battles have been fairly won.

Ask what you will; but you must climb-My hills by many a devious way, To gain those fastnesses of Time

That have not yielded in a day; And long the siege ere you shall win At length your right of way therein.

Ask what you will, brave knight-at-arms; Lo ! I have untold wealth to give; But every gift that lures and charms, Seeks only of the life you live, Wherever led, however spent, A just and fair equivalent.

#### **Plucky Women In Western** North.

By Aubrey Fullerton. The expected movement of ingoing settlers into the new Western North, for the season of 1916, is already under way. It bagan, in fact, a month or two before the year came in. By the first week of December, a surprisingly large number of prospective Peace River and Grand Prairie farmers, and in some cases whole families, had completed their arrangements for moving, and were actually on the road. The fact that a direct railway service is now at their disposal to 300 miles morth of Edmonton, has, of course, made the question of transportation very much simpler than it used to be, and despite the war and else, the people are taking advantage ot it. A feature of this, as of all immigration movements, is the number and very evident pluck of the women who are northward and westward bound. It is perhaps the most significant feature. For if the men who are going north to make new homes for themselves are courageous and daring, what shall we say of their wives and daughters? This year will prove, as every preceding year has proved, that the women of the North not only dare much and endure much, but with the men accomplish their full share, and more, in the building of the country. Meanwhile their moving in is of very real interest. Sometimes it happens that harder experiences are found on the way north than in the actual work that comes afterwards, and from first to last, moving-time in the frontier country is a domestic drama. A woman from Dakota who formed one of a party moving into the Peace River District, a year or two ago, showed her mettle on the first day out. She knew something about pioneer conditions, but over-estimated her own powers of endurance. When the party started on the trail, north of the then last railway line, there was a shortage of accommodation, and this plucky woman insisted on walking. She set out bravely, and did actually walk the first thirty miles, following the teams at close range. Then she capitulated, and allowed her friends to make other arrangements. Nevertheless, she proved herself to be the kind of woman who makes good in any country, and under any conditions. Of women's brave feats of endurance in the farming districts of the Western North there are numberless instances.

One of the first settlers in the bush country ofWestern Alberta fell sick with pneumonia. His wife took care of him all through a long winter, with not another soul in reach, and meanwhile kept the larder supplied with game that she shot with her own rifle. It was a desperately hard winter, but the plucky woman won out.

Still farther up the women have gone. There was a time when the North was looked upon as wholly a man's country. It was so hard to get there, and the conditions of living were so severe, that for many years no white woman ventured into the new frontier regions, or even wished she might. By and bye, however,, a few brave women went into the forbidden land, took their part in its pioneer life and work, and set an example for others like them; and now the North is almost a woman's country. In Alaska, for instance, there is an shared with men the difficulties and pri-

vations of the early mining days, but dead of a deadly winter. With her traff. who themselves played the part of mining prospectors. Some of them did it to such good purpose that they made fortunes, and others proved their fitness for the North by various exploits that called for no little power of nerve and will.

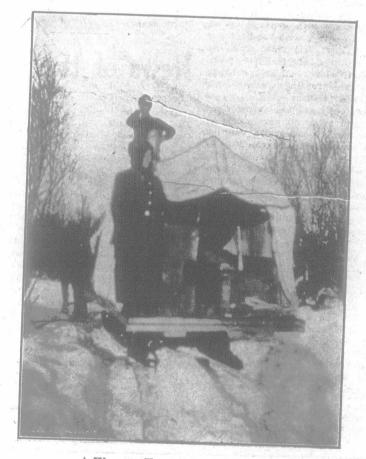
One of these women was the wife of a man who ran a bank in Nome. The bank fell upon bad days, when failure and ruin seemed imminent, and the man who ran it was helpless. But his wife saved it. She came to the rescue with a clean-up of gold nuggets from her own holdings, which she brought over the trail in midwinter, by dog-team. Three hundred miles she travelled thus, alone, and reach d Nome with her golden freight just in time to avert the threatened disaster.

Another woman, not a gold hunter, mushed fourteen hundred and fifty miles, honor roll of women who not merely from Rampart to Whitshorse, in the Yukon. She, too, went alone, in the

of dogs, she made an average of twentyfive miles a day, and for the greater part of the way she went afoot, holdingonly by her hands to the bars of the dog-sleigh. For on some days it was too cold to ride; one must keep movings in fifty- or sixty-below weather,

Just like a man this woman musher rode and tramped, sometimes breaking a way for the dogs when the zero-fog was too dense for them to see. Just like a man, too, when out of reach of the roadhouses, she made camp at night beside the trail, with a hole in the snow for her bed, a few fir branches for mattress, and her Arctic dog-robes for bedspreads. At dawn she was up and away again. Not many women could have done it, but this woman did It, and suffered nothing more serious that the loss of a few pounds weight in her two months on the winter trail.

Strange honsymoon trips sometimesfall to the lot of Northern brides. A newly-wedded couple at Whitehorse wished to get to Dawson, their home-to-be-But they were too late in the season to catch the last steamer up the Yukon. and for a month they waited atWhitehorse. When the first snow came they set out for home by the overland route. It was a strange bridal outfit : dogs, and grub-box, and a sled big enough for two, and the bridal tour ahead of them on the winter. Yukon trail promised to be a hard one. But they had a good time. The weather was fine, the going was good, and the numerous roadhouses along that particular trail made convenient stopping-places. When they reached Dawson they declared that they had not had a dull moment or an uncomfortable experience, and that dog - sled wedding trips in the North were good.



The Dollar Chain

#### LE DATES CLAIMED.

.-Wilbur C. Prouse, Tillsonsteins.

.-Norfolk Holstein Breeders' simcoe; W. A. Mason, Simcoe,

-J. M. Gardhouse, Weston, of Scotch Shorthorns, at k Yards, West Toronto. -W. S. Shearer, Listowel, Ont.;

-Estate of the late D. J. Woodville, Ont.; Shorthorns, and Shropshires.

-W. J. Cox, Peterboro, Ont.; and implements.

-Rettie Bros., Burgessville, eins.

-Guelph Fat Stock Club sale, J. M. Duff, Secretary. -T. L. Dunkim, Norwich, Ont.;

-Bruce County Stock Breedation Annual Consignment erton, Ont., N. C. Mackay,

-Elias Ruby, Tavistock, Ont.;

-W. J. Isaac, R. R. 1, Baltipure-bred stock. -East Elgin Breeders' Sale, H. C. Mann, Secretary. .-Oxford District Holstein lub Consignment Sale, at W. E. Thomson, Woodstock,

-Western Ontario Consignondon, Harry Smith, Hay,

-James Benning, Williams-Ayrshires.

A Woman Traveller in the North. Over the winter trail in a caboose.



Where a Grande Prairie Woman Keeps House.

A fund maintained by readers of "The Farmer's Advocate and Home Magazine, for (1) Belgian Relief; (2) Soldiers' Comforts; (8) Red Cross Supplies; (4) Serbian Relief.

Contributions from Jan. 28 to Feb. 4. were :

Jas. R. Bain, Loring, Ont., \$1.50; A. K. Sadler, Lambeth, Ont., \$1.00; T. L. Lowe, Bear Brook, Ont., \$1.00; E. McN., Ingersoll, Ont., \$1.00; M. G., St. Mary's. Ont., \$1.00; "Scotia," London, Ont., \$1.00; W. J. Dolsen, Chatham, Ont. \$3,50; R. S., St. Joseph, Ont., \$3.00; Eagle Lake Presbyterian Church, Stewart Bay, Ont., \$5.06; Mrs. E. Lear, R. 1, Blyth, Ont., \$2.00.

Amount previously acknowledged ......\$2,008.86

Two pairs of socks were very kindly sent by Mrs. H. Murray, Chatham, Ont., and forwarded, to Red Cross headquarters.

In regard to socks, may we ask, by request of the Red Cross, that those who are knitting will finish the toes, if possible, according to the directions given in our issue for July 15th. These make a nice, smooth toe, a great neces sity, since army boots cannot be fitted. At present, a number of women at the Red Cross are obliged to spend all of their time changing toes.

A note received from a helper in Grey Co., says: "I have tried making toes according to directions, and like it much better than the old way."

Kindly address contributions for the "Dollar Chain" to "The Farmer's Advocate and Home Magazine," London, Ont.

# Hope's Quiet Hour.

#### A Rose-Garden in the Desert.

The desert shall rejoice, and blossom as the rose. It shall blossom abundantly, and rejoice even with joy and singing . . . . for in the wilderness shall waters break out, and streams in the desert .- Isa. xxxv : 1, 2, 6.

One of the pleasant surprises which came to me at Christmas was a lovely Httle book, cail.d "In the Desert of Wait-In the Look was a card with ing." "Christmas greatings from one you have helped." Perhaps it was from one of my "Advocate" friends. In any case, my thanks go out for the book, which will carry its fragrant message to many of my sick and sorrowful neighbors. have already told the story to several "shut-ins." and lent the book to another.

The story describes a caravan of camels carrying various kinds of merchandise-across the desert. Shapur had loaded his camel with a heavy load of salt, which he hoped to carry through the Golden Gate of the City of his Desire. But the camel became lame and fell under its load. Shapur threw off sack after sack of the salt, but even when the entire load was removed the camel could not rise. The caravan went on its way, and the disconsolate merchant cared tenderly through long days and nights for his stricken beast, until it was able to take a few limping steps. Then he discovered, to his dismay, that a tiny stream from the spring where he had encamped had trickled through the sacks and dissolved the salt. Only one sackful was left.

"Now Allah has indeed forgotten me !" he cried. Even if the camel were able to travel, it was useless to set out for the City when he had no merchandise to dispose of. In utter despair he sat beside the fountain until he was disturbed by a bee which buzzed about him.

Where there are bees there must be honey," he decided, so he followed the bees for many miles until he reached the rose gardens of Omar.

There Omar, the old alchemist, spent his days in the wondrous work of transmuting the common things of earth into something precious. A hermit in the desert, he was secretly blessing the world.

Shapur was filled with new hope as he thought how easily the famous alchemist could change his little store of salt into gold. But Omar said : "Nav. Shapur. each man must be his own alchemist"; but he offered to teach him how to find the treasures hidden in common things. So Shapur picked rose petals in the Garden of Omar. packing thousands and thousands of them into great stone jars. Night after night he worked, through long months, until he grew discouraged by the deadly monotony of the task and the absence of visible results. At last the great alchemist presented him with a tiny vial of attar of roses, filled with the precious oil distilled from hundreds of thousands of roses, and so costly that only princes could afford  $t_0$ purchase it. He was told that wherever he went the fragrance would open a way into the hearts of men, and he must whisper to those bowed down in a Desert of Waiting this cheerful message :

#### THE FARMER'S ADVOCATE.

eye. springs from His wonder-working power; move the stones by the thought of the and if we keep our eyes on Him, taking from His hand the commonplace duty or the heavy sorrow, the fragrance will steal silently into other lives, making them strong and patient. Then they also will seek our Master, so that they may learn the secret which He only can teach,

- " My garden must be beautiful ;
- For when the shadows play In 1.n. th'ning shapes along the wall,
- And comes the cool of day,

Perchance my Lord might come to see The place where reses bloom for me."

Is the miracle of a ruse garden in the desert possible ? Our lives seem to us commonplace, and we ourselves are just ordinary people. Can God distil from our lives fragrance and beauty? Look at the earth and you will see something of His wonder-working power. The earth is dull and ugly-just dirt. But out of it springs go den grain to feed God's children; roses, violets, lilies, and countless other flowers draw from the common dirt beauty and fragrance, giving pleasure to God and man. He , Who clothes the lily in beautiful robes, takes pleasure in its beauty. How much more certain is it that the King greatly desires to see spiritual Leauty in His own sons and daughters. If a rose or a violet can distil beauty and sweetness out of ugly, had smelling soil, are we less carable? Does God give those, who are of more value than all the flowers. no power to make commonplace surroundings beautiful? It is folly to bemoan one's circumstances, and it is cowardly to put up with evils which we can conquer if we try, with God as our Teacher and Helper. I remember once seeing some pictures of forlorn "backyards," littered with unsightly rubbish, decaying, disease - breeding garbage, tin cans, 'etc. Then pictures were shown of the same plots of ground, transformed into orderly and beautiful gardens. God gives us the materials and we can use them, or waste them, as we choose. By irrigation and fertilization a rose-garden may be rescued from a desert waste. Even this terrible war has been grasped as raw material by noble souls, and out of the hideous evil we see springing fair and fragrant graces-courage, self - sacrifice, fortitude, faith, hope, and loving service.

It is our business to find pleasure in our work, or-if possible-to change it to some work we can enjoy. Mickey O'Halloran really meant what he said when he shouted: "I like to sell papers !" His happy face helped to cheer the people who bought his papers. If you find your lot is not cast "in a fair ground." you can make it fair. The task may be difficult, but it is well worth while-worth while for yourself and for the rest of the world.

The rose-garden in the desert to make use of, he is encouraged  $t_0$  repossibilities of the land which is as yet barren.

> If the plough of the Divine Husbandman is cutting deep furrows of pain or disappointment in your life, never imagine that it is a sign of want of love. The farmer cultivates his own field-he is determined to make it productive. Would you be better pleased if God let you alone, making no effort to clear away the weeds of selfishness and worldliness? Your soul is His valued rosegarden - " a garden inclosed." Keep the gate open for the Master, and allow Him to have full control.

- "The dark-trown mould's upturned By the sharp-pointed plow-And I've a lesson learned.
- "My life is but a field," Stretched out beneath God's sky Some harvest rich to yield.
- Where grows the golden grain? Where faith ? Where sympathy ? In a furrow cut by pain."

DORA FARNCOMB

#### A Kindly Thought.

One of our readers has sent a dollar for the poor or suffering. She says : "It's so cold this morning I was so thankful for a good fire that I thought of others who might not have a fire to warm them." The "Advocate" purse was quite empty-a most unusual event. Half of this dollar has already been spent on comforts for a poor woman who has been ill nearly three years. Many thanks ! HOPE.

# News of the Week

Among the leading topics of conversation in Canada still is the great fire in Ottawa which destroyed the Parliament buildings on the evening of February 3rd, causing loss of life to seven persons, Mr. B. B. Law, M.P. for Yarmouth, N. S.; Mr. J. B. Laplante, Assistant Clerk of the House; Mesdames Blay and Morin, guests of the wife of Mr. Sevegny, Speaker of the House; Randolph Fanning, of the Post Office Department; A. Desjardines, plumber, and Alphonse Desjardines, policeman. The two last named met their death, it is said, while trying to check the flames. Of the great building, although the walls still stand, only the beautiful lihrary remains intact, although dam aged to some extent by smoke and water.

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other hand, is firmly convinced, judging from the speed with which the fire developed, and the fact that five distinct explosions were heard, that the work was that of an incendiary. The Providence Journal, immediately on the news that the buildings were in flames, stated that three weeks before, it had sent word to the Department of Justice at Washington that a German plot was afoot to wreck the Parliament Buildings, Rideau Hall, and certain munitions plants in Canada. This is being investigated, and guards are being increased at many points.

The Parliament Buildings, the finest Gothic pile on the continent, were designed by the famous English architect, Sir Gilbert Scott; their corner-stone was laid in 1860, by the Prince of Wales, afterwards King Edward VII; and the first session of Parliament was held there in 1865.

The devastation caused no check in the proceedings of the Parliament in session at Ottawa, as the House met next day almost "as usual," but in the fine new Victoria Memorial Museum.

. . .

The Bulgarian Premier, M. Radoslavoff, has given out a statement that Bulgaria is at war with Serbia only, and that the Bulgars do not consider themselves obliged to fight against anyone else, hence are prepared to demobilize if the Allies will cease warlike preparations at Salonika.

. . . .

An exciting incident of the week was the taking of the British liner Appam, by a German cruiser, the Moewe, which is still at large somewhere in the Atlantic. The Appam was put in charge of a German crew and brought to the United States harbor at Norfolk, Va., as a prize of war.

Six or seven Zeppelins raided six of the English midland counties on Feb. 1st, dropping bombs which caused the death of 54 persons and injury of 67.

. . . .

Great preparations are being made on both sides for a great battle on the Western front in Europe. Little news is reported from elsewhere, except that Erzerum is said to be abandoned by the Turks. It is stated that Roumania will join the Allies in March. That the Teutons are becoming much in need of copper for munitions is believed from the fact that throughout Austria church bells are being taken down and forwarded to Dlants

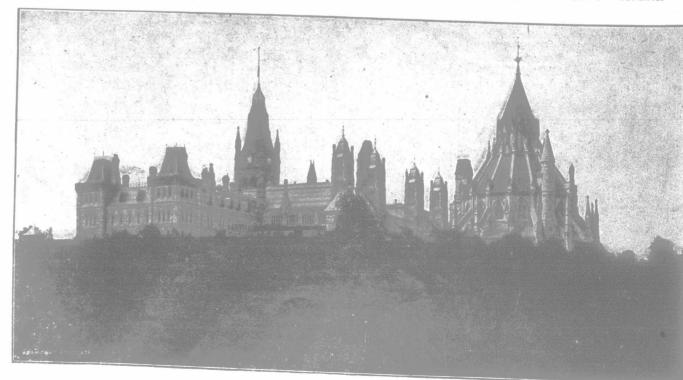
"Patience ! Here if thou wilt, in these arid sands, thou mayest find thy garden of Omar, and even from the daily tasks that prick thee sorest, distil some precious attar to sweeten all life."

The secret of Omar's alchemy is declared to be this: "To gather something from every one thou passest on the highway, and from every experience fate sends thee, as Omar gathered from the heart of every rose, and out of the wide knowledge thus gained of human weaknesses and human needs, to distil in thine own heart the precious oil of Sympathy."

The story is a beautiful one, and the reality is even more beautiful. It makes of life one great adventure. In the desert of a monotonous existence, or the terrible wilderness of physical or heart agony, we can distil the oil of joy and the precious gift of sympathy. But we must work patiently under the Master's

At time of going to press, reports in to be substantiated. Mr. Frank Glass, M.P., of London, who was in the Read-Keep your eyes on the coming victory ing Room when the fire started, believes

When Alice Jones was eighteen, she beregard to the origin of the fire remain came Miss E. Alysse Jones. When she went to enter a college, she was asked her name by the dean. She replied, and you will not likely give up the it to have been accidental. Mr. Graham, "Yes," said the dean, "and how are you fight. When a farmer has a stony field Chief of the Fire Department, on the spelling 'Jones' now ?"-Tit-Bits.



Parliament Buildings, Ottawa, from the Rear. Destroyed by fire February 3rd, 1916.

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#### The Ingle Nook. Correspondence. AFTER THE WAR.

I have just been reading your "After the War" in the Ingle Nook, and I want to express my approval. Your ideas are so much in line with what I have myself been trying to say that I am encouraged to think that we are on the right track anyway, and that if we are still somewhat in the dark in regard to some things, we have a good chance of getting out to the light by just keeping to the said "track" on which we have started. I see you lean to the side of optimism in regard to the outcome of the war. I certainly do myself, but at the same time I think that even to the Higher Power that is trying to guide man to his destiny, the end is uncertain. The whole thing is in the balance, and just to the extent that man has the choice in matters concerning his own fate, to that extent has he the power to frustrate the plans of the Guiding Power that we can see at work in the world and in the lives of men and women.

I am watching and hoping for some world movement as a result of this war that will bring about a better state of society than we have known in the past, but whether it will come in the form of an "impetus," as you say, through the medium of some individual, or as a gradual process of which any one generation can only see a part, we can only guess, of course.

But what I started out to say was that you have certainly not made us "tired" by your observations on the war and life in general, and if you still have some more of that sort of thing "in your system," we will be only too glad to profit by it. It doesn't even matter so much, though some of your ideas should be heterodox, so long as you get us started thinking. That's the real trouble with the world. Its inhabitants are too lazy to think. Again thanking you, I am J. E. M. yours sincerely. I agree with you, J. E. M., that the Higher Power will not interfere with man's free will, and that, by going on wrong roads we can frustrate even his purposes for a long time-just until we learn by our mistakes and rise above them. The saddest feature of great mistakes, too, is that the innocent must suffer, temporarily, because of them. I was much interested in your querying in regard to the form in which the "impetus" to a better - world basis may come. It reminded me of a chapter, "The Dynamic Character of Personal Ideals in a book that I am reading-"The New Humanism," by Edward Howard Griggs, published by B. W. Huebsch, 150 Nassau St., New York. Mr. Griggs places great confidence in the influence of the few men who march along, a little in advance it may be, of the very front "The supreme imrow of civilization. portance of the individual initiative," he says, "is in the moral sphere. Every great moral teaching of history bears the name of some man : this means that the loftier ideal comes into the world as the higher consciousness of the one who stands upon the advancing margin of life. This dream of the highest man, if it be in the line of progress, becomes a force acting upon other individuals, and by and bye is taken up into the very structure of social life." Again he says, "To be kept sweet and sound, the waters of life must be constantly stirred; and this vitalizing element, this forced motion of the Good, enters into the whole structure of society through the advancing margin, that is, through the highest consciousness and the highest effort of those individuals who are at the front." It's fine to think that there is an "advancing margin," isn't it ?-and that there are always the few who step forward even out of that. These, and the "margin," as anyone who has read enough history and science knows, draw the rest of humanity after them,-what is heresy in one era (taking "heresy" in its broad sense, of course,) becomes the accepted thought of the next. But the way of the few who step altogether forward is not easy, except as it receives compensation in the glorious consciousness of helping things forward. As Mr. Griggs says again, "Every great moral teacher in history has been a heretic, has been in advance of the traditional and conventional standards of his time. From

Isaiah to Socrates, from Christ to Giorrola, each has suffered for the ideas he has advocated. We have learned to do away with forms of physical torture, but the rack of ridicule and contempt, and the lash of misunderstanding are almost as bitter for the advancing leader  $t_0$  endure as the earlier, cruder forms of persecution. The man of highest aims is willing to pay this price for the work he does in the world; and this willingness is a partial proof that his ideals are of the advancing margin of life." You would like this book on "The New Humanism," J. E. M. I hope you will have the opportunity to read it.

THE FARMER'S ADVOCATE.

#### THE QUESTION RAISED BY "IN-SPIRED BACHELOR."

I expected that there would be some objections to my answer to "Inspired Bachelor." The Ingle Noo's is always a place for friendly discussion, and so here are two letters with which to open the debate :

Junia,-After seeing your answer to the Inspired Bachelor in your department on Jan. 13, I said in my heart ' "Thanks be unto God for the so-called primitive and out-of-date preachers, for 'there is a remnant unto this day." Now, if they believe in the Gospel of Jesus Christ, look at the 20th verse of the 19th chapter of Revelation. But why does God, Who is a God of Love, and Who is all Powerful, allow this awful war with all its sorrows? Because of all the abominations of the sons of men, and also because the preachers have gotten away from their marching orders, such as, "Go ye into all the world," etc. "Hold fast the form of sound words," etc. "Preach the word; be instant in season, out of season, reprove, rebuke, exhort," etc. How many of the up-to-date preachers have obeyed those, and the many other orders in the Word of God? I fear a great many of them have stayed home and gathered most of their crowds by advertising. Do they hold fast the form of sound words? No; they try to compete with the theater, so they entertain. Do they preach the Word? No; they must go with the crowd, so they leave the Gospel of Love and preach war. I am not a German, nor have I any sympathy with their methods, but I think the up-to-date preacher is getting away from his source of power. Hoping L have not wearied you, I remain,

ANOTHER BACHELOR. Middlesex Co., Ont.

ader of "The Farmer's Advocate" for Ingle Nook, to which it seems natural pages, but this is the first time I have ventured to join your Circle. I was quite interested in the letter written by "A Bachelor," and especially in your reply, Junia, regarding the doctrine of eternal punishment. I cannot help wondering what impression your remarks will leave on the minds of the many readers of this paper, and I cannot believe that a person, with a strong mind and character, as you have always appeared to me to be, could ever believe that the soul is annihilated at Death. Yet this doctrine is commonly taught nowadays, and as that brings us to that great question, "The Immortality of the Soul," I would just like to say that abyone at all interested, would do well to read the book entitled, "After Death," by Dr. Anderson-Berry. This book, being paper cover, may be obtained for a few cents from The Gospel Publishing House, 692 Eighth Avenue, New York. This work is very comprehensive and thorough. A SUBSCRIBER'S WIFE. Hastings Co., Ont. In reply to the last of these letters, I may say that if "Subscriber's Wife" will re-read my reply to "Inspired Bachelor" carefully, she will find that I did not even hint at annihilation after death. She merely misunderstood-that was all. Indeed, if she has been following my articles at all, she must know that I have over and over again referred to a glorious future, lasting time without end, in which we shall go on and on to ever greater things - things that we could neither grasp nor understand if they were presented  $t_0$  us now, because we are not developed enough.

My contention was merely that there dano Bruno, from Saint Paul to Savona- is no lake of "literal" fire-I do hope that everyone who reads - this column understands the meaning of that word "literal." I contended also that any preacher who preaches the existence of "literal" fire as a punishment is, so far as that point is concerned, primitive and misleading, no matter how good, and kind, and sincere, and sane, he may be on others. The word has been used in the Bible "figuratively," not "literally." They were great poets-those old Orientals-and talked and wrote in poetry, speech.-Of course, there is a hell, and a making free use of all such figures of bring it upon themselves, and a good many of them get a taste of it here in the "fire" of a tortured mind, tortured because; of its own failures. But it was never meant that there is a lake of real, literal fire, for tortured spirit-bodies.

The difference between the old ideabelieved, after all, by a mere fraction of the human race-and that held by all the 'advanced margin'' of thinkers to-day is, stated without varnish, this : The old idea was that God put us here, perhaps for fifteen years, perhaps for ninety,-in either case a mere pin-prick of time in the vast billions upon billions of years, time without end, of "eternity." We were put here, too, with temptations upon all sides of us, hampered, often, in addition, by shackles of heredity. If we chanced to be born in "heathen" lands, if we chanced to be doubters (no matter how honest), if we failed to toe the mark set up by orthodoxy in any way, then at death we were compelled to go into a lake of "real" fire, like the molten fire in a big furnace, and not only to go into it, but to be compelled to stay there, not even permitted to die, for billions upon billions of years, time without end,-never rising out of the cease less agony, never permitted to advance, never given another chance, except by the Anglican conception of the Intermediate State, and the Roman Catholic conception of a purgatory-I am not sure whe her even the latter extended this privilege to Protestants or not, as I am not a Roman Catholic, and know little about their beliefs. I must say, however, that the idea of a purgatory appea's to me much more strongly than the hard, inflexibility of the hell-fire-at-once-and-forever idea. . . And yet the God who permitted-yes, o:dered-all this agony, was supposed to be a God of Love.

The new idea (or rather, perhaps, "interpretation") is that God is really a God of Love.-That He wants us all. Dear Junia,-I have been an interested every one of us, to rise to higher and vet higher planes of spirituality extend some years now, but especially of the ing through all eternity; that He has given us our free will, seeing that only to turn first. I have received many by using our wings shall we become good recipes and helpful hints from its strong; that the hell that comes to us is mental, even, sometimes, physical on the earth-plane, a natural consequence of our choosing or blundering into the wrong way, and then having our eyes opened to see all the results of our defection: that after death we may, if necessary, have a period of bitter recognition of our infirmities, and, in the midst of it, a chance to hear again-a belief incorporated, if not understood by all of those who repeat it. in the creed of more than one Protestant church, in the words, "He descended into hell." 8 clause based upon I Peter, 3rd chapter, 18 and 19: "For Christ also hath once suffered for sins . . . being put to death in the flesh, but quickened by the Spirit : By which also he went and preached unto the spirits in prison." According to this interpretation of the teachings from Above, all humanity, then, is destined to evolve into a greater glory than anyone on this earth can possibly conceive, and God will be glad that He made man instead of sorry, as He must eventually be if He were compelled to think of all but a very small fraction of the human race writhing forever in REAL fire. To me, the God of literal hell ""fire" seems only a demon or a monstrosity. I can love the God whom I try to worship in my small way; I could neither love nor respect the other one. Perhaps some people could. If so, they have a right to believe as they choose. God can only be to us what our ideal of Him is, and so long as our ideal satisfies our hearts and our reason, it is all right.



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ce Jones was eighteen, she be-E. Alysse Jones. When she ter a college, she was asked by the dean. She replied, Alysse Jones-A-l-y-s-s-e." the dean, "and how are you ones' now ?''-Tit-Bits.



Now, I really feel that I have en-

croached upon Hope's domain in stumbling into this argument, but I am sure she will forgive me: She also worships a real God of Love, as those who read her writings each week must know. I would advise those who wish to read further on the subject to get Farrar's "Eternal Hope," and "Mercy and Judgment." 1 am sorry 1 do not know the publishers, but probably any bookstore could procure the books.

A modernist who chanced to drop into my office when this was being written, adds : Many readers will, of course, quote certain texts from the New Testament to prove that Jesus and the Apostles taught eternal punishment in a local hell of material fire; but this must never be forgotten : that, while a few isolated texts of this character are quotable against the modern idea concerning punishment, it is equally true that a preponderant array of texts support those ideas. "The letter killeththe Spirit giveth life," is a good rule to be followed by anybody who undertakes to prove an argument by a text. Jesus Himself taught that heaven is a condition rather than a place : the inference is then that hell is also not local. If the kingdom of heaven is in us, is not the kingdom of hell in us, too? That is to say, heaven and hell are words descriptive of attitudes of the individual towards life. "Everyone that loveth is born of God, etc.," gives strength to this concept of heaven. Heaven, is to love in the soul: Hell is hate in the soul: If a man says, "I love God, and hateth his brother, he is a liar."

"A new commandment give I unto you, that ye love one another."

"Where your treasure is, there will your heart be also."



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n Dress Cutting Co.

#### **FEBRUARY 10, 1916**

THE BACHELOR TAX QUESTION The Ingle Nook is becoming popular with the Bachelors. Here is another. We'll soon have to begin labelling them by number. Please read the following letter with a perception of the humor in it. This Bachelor isn't so tragic as he seems. Can't you see the twinkle in his eye? Yet he is serious, too, sometimes

Dear Junia,-Can you find a wee small corner in your Nook for a forsaken old bachelor? Just a small one, for I am only, a little fellow. Perhaps that is why I am still a bachelor.

I noticed in the "Advocate" for the 13th inst. that you would like some discussion on a few subjects which you have wisely chosen, so I am going to give you my opinion on, "Should Bachelors be Especially Taxed ?"

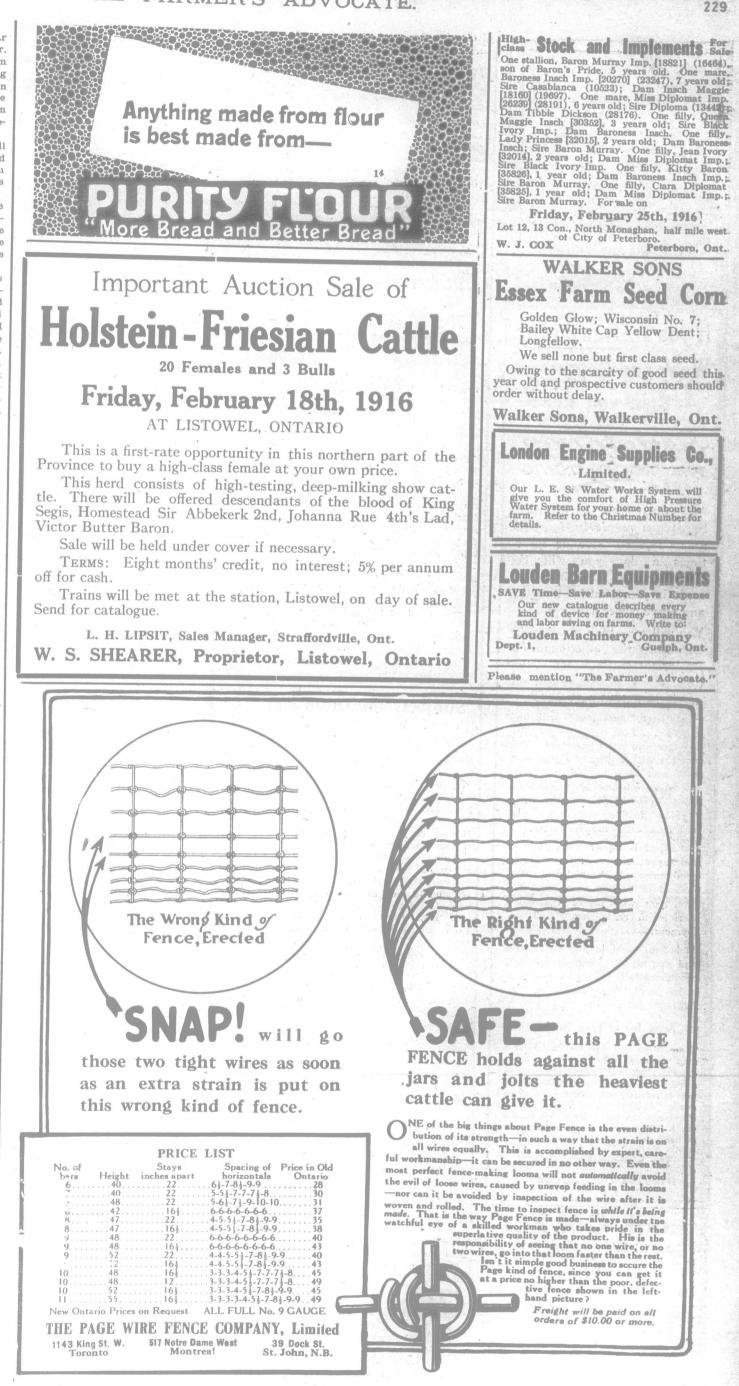
Why should they? I think there is just as large a percentage of the bachelors paying taxes as there are married And, also, they are being taxed men. to educate other people's children. think it is a shame the way people are beginning to treat us poor bachelors. It is hard enough not to be able to find a wife, but it is outrageous to think that we are going to be punished for our misfortunes. The next thing we know, some lady whose hopes are fast disappearing, and who wants to get tied with that tightest of tight knots, but can't, will be suggesting that all bachelors over a certain age be hastened on to the happy hunting ground or else get married.

It would be more like the proper thing if there were more restrictions on those who are married, or are going to be married, for there is an enormous amount of men who are married that, if they were bachelors, the world would be ever so much better. For one reason, there would not be so many of their kind in the coming generations.

Think of the wife-beater, the deserter, the drunkard, the thief, or the murderer, etc., and ask yourself if these are the types of men we want the next generations to be composed of ? Are there not a lot of that class among the bachelors, and the old maids, too? 'Tis true, they are in the minority, but if a tax were levied on the bachelors, would these not be the first-to try to escape it by marrying? Some will perhaps say that the tax is not meant, to force men to marry. Well, why tax the bachelors any more than the married men, then?

Then, again, is not the world being populated fast enough ? I rather think it is being populated too fast. At the rate it is increasing, in a few generations there will not be any more room think that it is one of the main causes at the bottom of this war. Then, why try to increase it faster by placing a tax on the unmarried to try to force them to marry? It would be far better if the law was made so as to hinder them in such a manner that only the best (not necessarily the richest) would marry. I don't know how it would be done, but probably the one who first suggested to tax the bachelors could think of a plan. Hoping, to read the opinion of someone else on this subject, I will close with respect for all and malice to none. HAPPY, THO' SINGLE.

# THE FARMER'S ADVOCATE.



Lot 12, 13 Con., North Monaghan, half mile west. W. J. COX Peterboro, Ont.



erries, seed potatoes, etc. — 50 uding Fall-bearing. St. Regis, Ever-other raspberries. Blackberries, cur-berries, grapes, asparague. Cobbler Mountain potatoes. Catalogue free-NNELL & SON, Port Burwell, Ont-

ect Piano for the Home . NEW SCALE S ILLIAMO of the World's Great Artists LAMS PLANOLIMITED Ontario. 



A BUDGET OF ANSWERS. Dear Junia and Ingle Nook Friends,-Junia speaks of writing in the long win-ter evenings. I smiled. When one is glad to retire early, in order to get up again, where is the evening?

I have a fellow - feeling for "Lallie." As a constant companion, that tired feeling is not pleasant.

When the doctor says rest is needed as much or more than medicine-what then ? It is not our husbands' fault either, for they are willing we should have all the conveniences we can afford. We need physical strength, or endurance enough for the day's work, and a reserve, with which to be cheerful, interested, and interesting.

The common round, the daily task, Will furnish all we ought to ask: Room to deny ourselves"-

But isn't that just where the rub comes-we do ask for more. We are willing, glad to do that, but we also want some time free, without having to steal it, to do the things we want to do,-read, practice, visit, etc. After her first two days at school, my

#### THE FARMER'S ADVOCATE.

FOUNDED 1866



If you are Run down, Weak and Depressed then you need THE FOOD - TONIC

And when you have taken Sanatogen regularly, for just a few weeks-twice or three times a day-you will be astonished at the improvement in your health, strength, and nerve-power.

You will say-with Mr. Arnold Bennett, the distinguished playwright and novelist—"the tonic effect of Sanatogen on me is simply wonderful !"

First, that "nerviness" will disappear. You will really be stronger and more vigorous. You will eat with appetite, digest your food, and sleep soundly. There will be more colour in your cheeks, more light in your eyes, more "spring" in your walk. You will both look better and feel better.

Instead of being irritable, gloomy, apprenensive — you will be

little daughter said she was not going any more, it took too much time. "Why," she said, "when do you think

I am ever going to do the things I want to do ?" And, Junia, I think that accounts for the lack of the art of conversation in the country-re your excellent talk of Dec. 23.

It is hard to choose the "greatest" from the many influences in my life, but am sure it was my father's love and trust, and the feeling that my mother,who died when I was three and a half years-was watching over me.

Most assuredly, bachelors should not be taxed because they are bachelors, or as a means of driving them into matrimony. What girl could endure to be married for any other reason than to be 'loved, honored, and cherished?'

Don't you think that if our children were taught the beauty and sacredness of marriage, instead of being joked or teased about their "girl" or their "fellow," that there would be better, happier homes and families?

I think that requiring medical certificates from those wishing to marry, would be a long stride in the right direction, and might result in fewer problems of the advisability of letting undesirables die. When we read of Mrs. Taylor's baby, we picture a very different specimen. I agree with her, and also with "A Bachelor." Someone has called them "precious trials," but, oh ! how precious ! Who would willingly give them ap?

'Bachelor," are you giving your parents the greatest joy of all in knowing that you are on the Lord's side. Does not that include all the very best things we wish for our babies, and if they develop as we wish, we forget all the trials and remember only the preciousness.

Junia, we do enjoy your talks, and wish you and Miss Farncomb and "The Farmer's Advccate" a Happy New Year. MOTHER OF FOUR.

Essex Co., Ont.

Several letters are held over for another time.

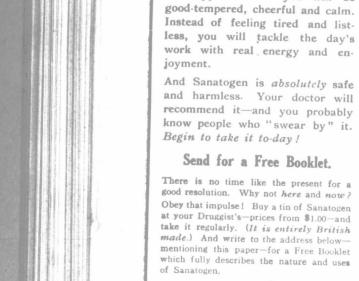
Subjects for Discussion.

1. What person (historical or modern) would you like to resemble?

2. Should children ever be paid money for what they do about the home or farm ?

3. Why I want to leave the farm .-This is a subject for discontented young folk, and older ones, too, who are not happy on the farm,-for there are such. It may do good to air their reasons, for if there are wrong conditions anywhere, bringing them to the light may suggest a remedy. If there is a sore spot, we do not cure it by shutting our eyes and refusing to look at it, but by probing it and cleansing it. 3. The letter written by Mother of Four suggests our third subject, one which, I hope, will be dealt with by many housekeepers who have found an escape from over-work, and have learned how to secure a reasonable amount of time for rest, reading, and recreation. Let us word the subject, then, "How I made my escape from over-work," or something to that effect. There is a real need that this question be thoroughly talked over by those who have found a way out; there are so very many who are just groping for one-so tired, so discouraged, so greatly in need of help.





The Sanatogen Company, P.O. Box 2622, Montreal.

# Look Out For

The Imperial Life Assurance Company's big advertisement in next week's issue entitled

#### "An Advertisement to Wives"

It has an interesting message for YOU. For Sale Imported Percheron Stallion, kind and quilet in the stable and in harness. Sure feal-getter, finoided, inspected and approved, borm one, Registered in French and Canadian Stati Books. Apply to

#### First Aid for Cuts.

In reply to a letter from Mrs. S. B., asking for some information on what to do first in the case of a member of a family cutting himself or herself badly, before a doctor can be reached, I may say :

The first consideration, of course, is to prevent excessive bleeding. A moderate amount of bleeding is an excellent thing, and permits washing out of the wound. The second consideration is the condition of the instrument with which the wound was made, i. e., whether it was clean or dirty, and the condition of the skin or clothing through which the instrument may have passed in making the cut. The third consideration will be the nature of the cut itself, i. e., a free, open wound, or a narrow puncture. Provided J. F. PLAYTER, Newmarket, Ont. a doctor is available within a reason-





It's what's inside the cup that counts.

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### The Best Seed Is The Cheapest Red Clover, Special No. 1 ..... \$17.00 " " No. 1..... 16.50 Alsyke, No. 1...... 14.00 " No. 2..... 12.50 Lucerne or Alfalfa, Montanagrown..... 16.00 Timothy, No. 2..... (Grades No. 1 for Purity) . 5.50 Bags extra, 25c. each. We pay freight on orders of \$25 or over. You might beat our price, but not our quality. Potato Special—Early Irish Cobblers for future shipment, \$2.60

per bag of 90 lbs., ex-warehouse.

Order now. Terms cash with order. No goods sent C.O.D.

#### HEWER SEED CO. 90 Macdonnell Street East

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# ably short time, say a few hours, my

own advice would be to first have fairly free bleeding, then stop the bleeding (by pressure and raising the part above the rest of the body), and leave the wound until the doctor comes, in most cases. If the wound is made by a very dirty instrument, or has accidentally received a great dose of dirt of some kind, especially soil, manured soil in Particular, or manure itself, then I would turn a tap on it or otherwise wash it under a flowing current of water very thoroughly indeed. If these two matters are attended to, I think that in most cases it will be quite safe to wait until the doctor comes. If the wounds are punctured, promote free bleeding and hurry the doctor, since it may often be necessary to give tetanus antitoxin, to cauterize, or to lay the whole wound widely open, perhaps all three.

For minor wounds, when a physician is not ordinarily called in, the same principles apply. Permit free bleeding for a time, then stop the bleeding and close the wound by gentle pressure until the edges stick. Then the ideal treatment after that is simply to keep the part from any injury which would break the seal and let the wound open. I certainly would not use coal oil or

any other substance for a wound which a doctor was going to see, nor would I use them on wounds that the doctor is not going to see. Any wound which re-quires disinfection should be disinfected by the physician, and household measures of this kind are not advisable at all. In cases of doubt, watery solutions of bichloride of mercury, one in a 1,000, cannot be improved upon. Carbolic acid in many people produces blisters and burns. It must always be remembered that bichloride is a deadly poison in tablet form, and even in liquid solutions of one in a 1,000, so that every precaution must be taken to see that children do not eat the tablets or drink the solution.

When it is necessary to protect a sealed wound of a trivial nature for which a physician has not been called, do not put a handkerchief or 'some other exceedingly dirty piece of cloth upon it. and whatever cloth is used, do not tie it tightly. The best covering for such a wound is no covering at all, but most people, especially children, require something to remind them not to knock the injured finger, and a loose, large bandage, which will cover the finger in a bunchy way and make them guard against knocking it, is good principally to call their attention to the fact that they are to watch the finger. Avoid rubber finger stalls, court-plaster, and that kind absolutely. collodion is not a good dressing for a cut unless it has been thoroughly treated first by a physician.





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**Our Serial Story** 

"THE CHAPERON."

By C. N. and A. M. Williamson.

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Chapter XXXVI.

RONALD LESTER STARR'S POINT OF VIEW.

(Continued.)

I smiled brilliantly at the dear fellow. I sprang to him, holding out a welcoming hand.

"Why, Sir Alec, this is a delightful surprise !" I exclaimed. "Where did you come from ? I thought I had lost you, at Leeuwarden."

So utterly was he dumbfounded, not to say flabbergasted, by the manner of his reception, that I had time to spring these three quickly following remarks upon him before he was able to answer.

When he did, it was with a sledgehammer. "Well, I'm d-d !" said he. I stared in gentle amazement; then, glancing quickly at Alb, appeared suddenly to apprehend his meaning.

"Why, of course, you must be surprised to find me on a boat with Jonkheer Brederode."

"You lied to me at Leeuwarden,"

Whole Corn 1.95 Cracked Corn.... 2.00 Monarch Scratch Feed 2.28 

Prices on Ton Lots: We cannot make any reduction on above prices, even if you purchase five or ten tons. The only reduction from the above prices would be on carload orders.

Terms Cash With Order: Orders may be assorted as desired. On shipments up to five bags, buyer pays freight charges. On shipments over five bags we will prepay freight to any station in Ontario, east of Sudbury and south of North Bay. West of Sudbury and New Ontario, add 15 cents per bag. Prices are subject to market changes.

### TWO GREAT WAR BOOKS

From the Trenches, by Geoffrey Young. A thrilling and authorita-tive book written by an eye-witness of the retreat of the Army of France. This book includes the battle on the Marne, and should be of great interest to readers wishing an authentic description of the early part of the war.

The Evidence on the Case, by James M. Beck, late Assistant Attorney-General of the United States. While this book is by one of the ablest jurists of the United States, it is written in an intensely inter-esting style. It reviews the evidence presented in the official papers, British Corman Bussian and Belgian in remark to the curvestion of esting style. It reviews the evidence presented in the omicial papers, British, German, Russian and Belgian, in regard to the causation of the war. The conclusions presented by Mr. Beck have been accepted by leaders of thought as constituting a most notable contribution to the literature of the war. The work will be accepted as belonging to lasting history. It should be in every home library in Canada.

Ye Olde Miller's Household Book.—Over 1,000 tested recipes, and large medical section. Enclose 10 cents to pay postage and packing on this book. No postage asked for on other books. No book forwarded unless an order for four or more bags of flour is received.

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#### THE FARMER'S ADVOCATE.

FOUNDED 1866



Advertisements will be inserted under this seading, such as Farm Properties, Help and Situations Wanted and Pet Stock. TERMS—Three cents per word each insertion Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 50 cents.

SCOTCHMAN--(life long experience in general mixed farming) seeks situation on good dairy farm; is a first class milter and successful with care of stock. George Hamilton, 2310 Boulevard Gouin, Bordeaux, Montreal, Que.

Gouin. Bordeaux, Montreal, Que. WANTED-April first - Experienced farmer married, abstainer; competent to take charge 100-acre farm and live stock in all details. Wife to do milking and dairy work. House pro-vided and usual allowances. State age, experi-ence, wages, references. Box "O." Farmer's Advocate, London, Ont. WANTED-young girl as housemaid. Good home every convenience. Railway fare paid. Apply with particulars. Mrs. Lester Weaver, Hespeler, Ontario.

WANTED-Experienced farmer to work 50 Warres; large house, best water and conveni-ences; close good manufacturing town, Waterloo County. Prefer man with family to work in knitting mills, etc.; 15 minutes walk to mills. Splendid chance for steady man. Write Box "N," Farmer's Advocate, London, Ont.

WANTED by married man, April 1st, as herds-man, Holstein preferred, can take full con-trol. Apply: Gladwish, care of Mr. Schill, Woodstock, Ontario.

WANTED at once A Scotchman, single, about forty years old, to work by year on stock farm; good with Shorthorn cattle. State wages wanted. Apply at once. Allen J. Fox, Harrow, Out

Oat. 640 ACRES in Central Alberta—live stock run welected this farm after examining many townships. It has steadily increased in value, and is now sur-rounded by prosperous farmers; near main line, southeast of Edmonton. Gently rolling deep black soil, underlayed with clay. All in hay, no sloughs, and ready for the plough, every acre arable land. Neighbors this year (1915) averaged 60 bushels wheat per acre. Wish to sell at once. No agents. Price \$25 an acre, half cash, worth \$100 an acre for farming purposes. Easy terms. G. C. Creel-man, President Ontario Agricultural College, Guelph.

Wanted Herdsman for one of the best Shorthorn herds in On-tario. Must be competent and careful; age over 35 preferred and married.

Apply Box 18, Farmers' Advocate London, Ontario.

Wanted —Custom Tanning. Horse hides and cattle hides for robes and coats. Also all kinds of skins and furs. Send them to me and have them tanned soft and pliable. Address:

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Oats, O.A.C. No. 72 Improved seed

went on Sir Alec. He was never a man to mince words, as I noticed when visiting my aunt. Poor, pretty, flirtatious Aunt Fay !" I now gathered dignity. My simple

delight at an unexpected meeting with a relative (in law) in a foreign waterway, froze into virtuous indignation. "Really Sir Alec, I am at a loss to

understand you," I said. "I greet you in the most friendly-"

"Because you're a scoundrel and a hypocrite," said he.

This interruption I scorned to notice, save by proceeding as I had intended to proceed.

"And you insult me, What do you mean, Sir Alec MacNairne ?" "I mean"-he caught me up without

hesitation-"that you, though you pretended to sympathize when I confided in you, were in league with Rudolph Brederode to outwit and deceive me in the most shameless way."

"You forget yourself," said Brederode, turning red, and contriving to keep his dignity in spite of Hendrik's sopping overalls. "I have never deceived or injured you. If this were my boat, I should have to ask-"

"Don't try that on," said Sir Alec, scornfully. "It is your boat."

"It happens to be the property of Miss Van Buren, a young American lady, for whom I'm acting as skipper," returned Alb.

"Rot," was the terse comment of my uncle-in-law.

Alb bit his lip, and his eyes were growing dangerous. I had seen that look on his face once or twice. "And he's engaged to her," said I.

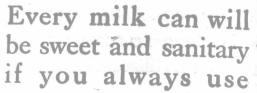
That is, something inside of me popped out those words, and there they were spoken, not to be taken back. Alb and I looked at each other. He fushed again. But he did not speak.

"Produce this Miss Van Buren," sneered Sir Alec.

"I will," I promised. "But before I do, calm yourself. You are in no fit state to speak to ladies."

"I wish to talk to my wif?," said he. "Aunt Fay is not on board this boat, and never has been, I pronounced, each nerve on edge lest one lovely feminine head or another should pop up from below. I knew well that we owed the extraordinary obedience of the girls to the magnetic influence of that remarkable woman their chaperon, and how long she could continue to exert the charm which meshed them in the cabin, as Vivien meshed Merlin in the hollow oak, it was impossible to guess. At any instant we might hear a girlish voice calling the name of Lady MacNairne. Even if Tibe-but I dared not think of





**Old Dutch** 



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Why worry along with slow out-of-date implements and meagre results? Planet Jr tools are far more economical—they do 3 to 6 times the work, get bigger, better crops, and outlast several ordinary implements. Fully guaranteed. You are actually losing money when-

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No. 72 Planet Jr 2-row, 2-horse Pivot-wheel Cultivator saves a man, a team, and a cultivator every day it is used, Cultivates 2 rows of corn, potatoes, beans, etc., at one pas-sage, even if rows are crooked or irregular width. In check rows and listed corn it also beats any other tool. Can be equipped with spring-trip stand-ards, discs, sweeps, hoe steels, and furrowing shovels. Specially hardened cultivating steels add 50 per cent to wear. Also spring lift, new this year.

Specially hardened cultivating this year. No. 8 Planet Jr Horse Hoe and Cultivator is stronger, better-made and capable of a greater variety of work than any other horse hoe made. Non-clog-ging steel wheel. Depth-regulator and extra-long frame make it run steady. Adjustable for both depth and width. Is other styles of one-horse cultivators-various prices. New 72-mage Catalog (184 illustrations) freed

scribes over 70 tools, including 12 entirely new ones, and rovements to our Seeders, Wheel-Hoes, Horse-Hoes, rows. Orchard-. Beet- and Pivot-wheel Riding Culture ws, Orchard-, Beet- and Pivot-wheel Riding Cul Write us for name of nearest Agency. S L Allen & Co Box 1108F Philadelphia



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of-date implements and meagre results? mical-they do 3 to 6 times the work, t several ordinary implements. Fully You are actually losing money whenltivate without them.

Invate without them. lanet Jr 2-row, 2-horse Pivot-wheel Cultivator n, a team, and a cultivator every day it is used. 2 rows of corn, potatoes, beans, etc., at one pas-even if rows are crooked or irregular width, check rows and listed corn it also beats any pol. Can be equipped with spring-trip stand-cs, sweeps, hoe steels, and furrowing shovels, whardened cultivating steels add 50 per cent Also spring lift, new this year.

Also spring hit, new this year. lanet Jr Horse Hoe and Cultivator is stronger, r-made and capable of a greater variety of than any other horse hoe made. Non-clog-ing steel wheel. Depth-regulator and extra-long frame make it run steady. Adjustable for both depth and width. Is other styles of one-horse cultivators-various prices.

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**FEBRUARY 10, 1916** 

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# THE FARMER'S ADVOCATE.

motor-launch, and I'm about sick of the whole business. I've got him now, and you, too. And though you may both tell me till you're blue in the face that my wife hasn't been and isn't on this boat, I won't believe you till I've searched every hole and co ner of it."

"Perhaps I had better go and ask Miss Van Buren whether she will kindly permit my uncle-in-law to ma'e such an examination of her property," I said, with the ice of conscious rectitude in my voice.

"Very well," returned Sir Alec. "Go and fetch her."

With head aloft, I stalked to the top of the steps which I defy any human being to descend with dignity.

What would happen between Sir Alec and Alb while I was gon?, or what I should say when I got below, I knew not. I could only trust to luck. Was it going to turn out in vain, I asked myself, that all my life I have been called "lucky Starr"

The canvas curtain at the door of the outer cabin, which protects the ladies from the heat of the motor-room, was unfurled and hanging at length. Standing behind it, I spoke Miss Van Buren's name.

All was silent on the other side. But, after a delay of a few seconds, Nell half pushed aside the heavy fils of cinvas and looked out at me. Her charming face was, for an instant, within twelve inches of mine. I drew bec in resignation. With my own hand I had given her to another. Whether or no she would eventually become his, I could not tell, but I felt that, after what I had done, she would never belong to me. There was, however, very little time

to think of that now. My business was pressing.

"Come outside in the passage a minute," I said, in a low voice, still hearing no sound from the other side of the curtain. "I want to speak to you." "Lady MacNairne-" she began.

I put my finger to my lips. Sh !" said I.

"Oh, did you know she was ill ?" asked Nell.

"She is, poor dear. She had the most sudden attack, just after we came down, and Phyllis and I haven't been able to leave her. She wouldn't let one of us go up to tell you."

"Wonderful little woman !" I could scarcely refrain from exclaiming. "Her cleverness-I mean her consideration-is

"It was her heart," explained Nell. "She's been lying down ever since, holding Phyllis's hand and mine. But she's better now, and I'm not sure she hasn't



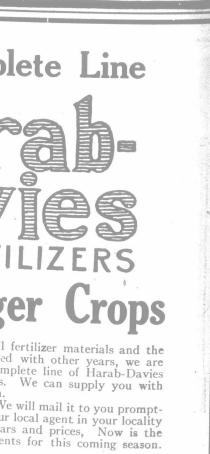
BUFF Orpington and Single-comb White Leg-horn cockerels; good exhibition and laying strain. Lowest prices. F. H. Reesor, R.R. No. I. Markham, Ont

BARRED Rocks, laying strain, prise-winners, Cockerels, \$1.50 to \$2.00. Females \$1.25 to \$1.50. Central Poultry Yards, Colborne, Ont.

BRED-TO-LAY O. A. C. strain-Barred Rock cockerels, one-fifty each; fine birds. Orville J. Bond, Paris, Ont.

CHOICE Toulouse ganders. Also Single-comb White Leghorn cockerels, Linscott & Rose & Rose A. Stevens, R.R. 2, Lambeth, Ont. strain





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strain. A. Stevens, R.R. 2, Lambeth, Ont.
 CLARKS Famous Orpingtons—75 choice vigorous Buff and White Orpington cockerels and year-lings, 100 pullets and yearlings. Bred from best exhibition and laying strains in Canada. Males \$3, \$4, \$5; females \$1.50, \$2, \$3 each. Choice breeding pen 5 birds \$10 to \$15. Best general purpose fowl bred, unexcelled for table, layers and mothers. Order from oldest and largest breeder in Canada. Satisfaction.guaranteed. Eggs shipped in season. Catalogue free. J. W. Clark, Cedar Row Farm, Cainsville, Ont.
 VITHITE Wvandottes. (Martin strain) Primewing.

WHITE Wyandottes, (Martin strain) Prize-win-ners. Dunc. McTavish, Chesley, Ont.

4 OR 5 pairs Muskova Ducks for sale. Apply a Tancock, King St., London, Ont.



FREE to Stockmen and Poultrymen, our 80-page illustrated booklet on feeding; how to construct a dimensions and measurements of every piece of number required. Deals with the common dis-eases of stock and poultry and the remedies. Tells how to cure roup in four days. Contains full in-formation about Royal Purple Stock and Poultry Foods and Remedies.

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#### THE FARMER'S ADVOCATE.

1916

#### FOUNDED 1866

thetic puzzled Nell. "Can't anything be done about it ?"

"Something has been done," said 1. 'That's what I want you to forgive me for, and-and help me to carry out, for Aunt Fay's sake. Poor Aunt Fay, who's suffering with her heart at this minute ! What will she have to endure, if you don't stand by her !"

"I'll stand by her with all my might and main," said Nell. "What can I do ?''

"I'm breaking it to you-by degrees, The first degree is, I told Sir Alec that Alb was-is-in love with you." "Oh-how could you ?"

"It was fatally easy. And then

said you were engaged to him. That's the second degree; and the third and last is, that I beg and implore you to come on deck with me, and tell him it's true."

The girl had actually turned pale. "I can't possibly. Anything else-but not. that," she said.

"It's the one thing to save my poor aunt. Miss Van Buren-Nell-I tell you frankly, if you won't do this, she-I'm afraid she won't much longer be Lady MacNairne."

"Good gracious ! How awful!" stam-

mered the girl. "Tragic !" I agreed. "And for mebut I say nothing of my feelings. You know how devoted 1 am to my aunt. She'll be alone in the world-with Tibe -if you refuse to sacrifice yourself in this way for her."

Nell's face was now white and set. felt a brute; but what was I to do? For the sake of every one concerned, I couldn't have the L.C.P. exposed, or be exposed myself, and the trip broken up at the last, in contumely for all. I hung on her lips.

"Where is Jonkheer Brederode ?" she asked.

"He is on deck, too."

"And you expect me to say-before him-that-"

"He's said the same, already. Or. at least, he agreed while I said it." "Oh ! Well, I don't see how I'm to go through with it. But for Lady MacNairne's sake, I'll-do it. Come, let's get it over."

"Wait a minute," I urged, restraining her impatience. "I must explain a little more, first. After Sir Alec has talked with you, he'll want to come below to the cabins, and everywhere, searching for his wife; for he won't believe, till he's made sure with his own eyes, that she's not on board. If you're willing that he should, I am; but don't tell him that a person named Lady Mac-Nairne's really with us, or I can't answer for the consequences."

"If he comes below, he'll see

**Forty-Sixth Annual Report** of Canada's Only Mutual Life Assurance Co.

1870

On Thursday, February Third, the Forty-Sixth Annual Meeting of the Mutual Life Assurance Company of Canada took place at its Head Office, Waterloo, Ontario. Notwithstanding the disturbed conditions which prevailed throughout the Dominion, the Directors were able to report very gratifying results from the year's operations. Following is a

#### SUMMARY STATEMENT

| Paid to Policyholders         2,035,814           Assets         26,894,524           Surplus         4,258,737 | Gain over 1915       \$ 433,709         Gain over 1915       444,368         Gain over 1915       2,252,210         Gain over 1915       440,258         Gain over 1915       6,614,670 |
|---|---|
|---|---|

#### **EXPENSE AND INTEREST RATE**

The ratio of expense to total income has fallen, while the rate of interest earned has risen, both results being favorable to the payment of substantial profits.

#### SURPLUS EARNINGS

The Company's well-established reputation as a dividend payer was further enhanced by the notable record of

#### SURPLUS EARNED DURING THE YEAR, \$1,158,210.20

an increase of ten per cent. over the previous year. This assures the continuation of the payment of generous dividends to the participating policyholders of the Company.

The steady growth of the Company is illustrated by the following:

#### STATEMENT BY DECENNIAL PERIODS

| Year.<br>1875\$<br>1885<br>1895. | Income.<br>29,593<br>270,697<br>735,079 | Assets.<br>\$ 53,681<br>750,344<br>3,123,575 | Paid to<br>Policyholders.<br>\$ 4,625<br>115,669<br>328,829 | Business<br>in Force.<br>\$ 1,177,085<br>8,259,361<br>10,312,477 |
|----------------------------------|---|--|---|--|
| 1905 1                           | 056 510                                 | 0,206,002                                    | 328,829   | 19,312,477   |



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thetic puzzled Nell. "Can't anything be done about it ?"

"Something has been done," said 1. "That's what I want you to forgive me for, and-and help me to carry out, for Aunt Fay's sake. Poor Aunt Fay, who's suffering with her heart at this minute ! What will she have to endure, if you don't stand by her !"

"I'll stand by her with all my might and main," said Nell. "What can I do ?''

"I'm breaking it to you-by degrees, The first degree is, I told Sir Alec that Alb was-is-in love with you." "Oh-how could you ?"

"It was fatally easy. And then I aid you were engaged to him. That's the second degree; and the third and ast is, that I beg and implore you to ome on deck with me, and tell him it's rue.''

The girl had actually turned pale. "I an't possibly. Anything else-but not hat," she said.

"It's the one thing to save my poor unt. Miss Van Buren-Nell-I tell you rankly, if you won't do this, she-I'm fraid she won't much longer be Lady acNairne."

"Good gracious ! How awful!" stamhered the girl. "Tragic !" I agreed. "And for me-

ut I say nothing of my feelings. You now how devoted I am to my aunt. he'll be alone in the world-with Tibe if you refuse to sacrifice yourself in his way for her."

Nell's face was now white and set. It a brute; but what was I to do? or the sake of every one concerned, I uldn't have the L.C.P. exposed, or be posed myself, and the trip broken up the last, in contumely for all.

I hung on her lips. "Where is Jonkheer Brederode ?" she ked.

"He is on deck, too."

"And you expect me to say-before m-that-"

"He's said the same, already. Or. least, he agreed while I said it." 'Oh ! Well, I don't see how I'm to through with it. But for Lady cNairne's sake, I'll-do it. Come,

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If he comes below, he'll see her.

#### FEBRUARY 10, 1916

came back with the strained air of a martyr who hears the lions. We went up on deck together, and a glance showed Sir Alec that no introduction was needed.

"What ! This is Miss Van Buren, the young lady who is engaged to marry Jonkheer Brederode !" he exclaimed.

Nell bowed. thankful no doubt that his way of putting it relieved her of the necessity for words.

"You said in Leeuwarden that you didn't know the two young ladies in Dutch costumes," my uncle i ;-law flung at me.

"You may have gathered that imprezsion. I certainly never said so," I answered promptly-and truthfully too. "Perhaps I thought, at the time, that the less attention bestowed on the lucies the better they would be pleased," added.

"You were right," remarked Nell, bravely.

"Oh, very wel'," sa'd Sir Alec. Then, abruptly, "flow's the dog ?" "He's as nice as ever," replied the

girl Silence for an instant. MacNairne

was visibly reflecting. The sight of Miss Van Buren, and her tacit confirmation of my statement, was cooling him down. He is a gentleman, and a good fellow when not in one of his jealous rages; and evidently he did not wish to distress her, or shake her faith in a man she was going to marry.

"I expected to find my wife on board this boat," he said at last abruptly. "Is she here ?"

"No." said Nell, "she is not, and never has been."

"It's your boat-nct\_Bredercde's ?" "It's my boat. He is-kindly acting as our skipper. If you would care to go below, and satisfy yourself that La-

that your wife isn't on board, please do Sir Alec looked at her, and she looked

at him, straight in the eyes, as why should she not, poor girl, having no guilty secret of her own to conccal? "Thank you," he said. "If I've your word for it, that's enough. I won't go below. Instead, I will bid you good afternoon, and get back to my own boat -if I can. But first-Starr, do you know where my wife is ?"

"I don't,' said I. "That I swear. I only wish I did, and I'd tell you like a shot. Why don't your advertise in the papers : 'Come home. Forget and forgive. I'll do the same.' Or something of the sort? I'm perfectly sure that would fetch her, for she's very fond of you, you know-or ought to know. She told me once that, in spite of all. you were one of the best fellows in the

# THE FARMER'S ADVOCATE.



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Please mention "The Farmer's Advocate."



235

That doesn't matter, as they've never t; so long as he doesn't know her

Very well, he shan't learn it from

And he mustn't from Miss Rivers. l you warn your stepsister, not unany provocation whatever, to speak name of Lady MacNairne ?"

I will. But why couldn't you have Phil was engaged to Jonkheer Breode ?''

Robert van Buren wouldn't have od it."

see. But what about him? It's use my telling him anything; he ld go and do the opposite. He's ing in the outer cabin, alone, where y MacNairne asked him to stay and guard over her, while Phyllis and opped beside her in the inner room." Dear Aunt Fay," I murmured. "If ll just warn Miss Rivers, and tell

aunt that she'd better be as'eep n Sir Alec MacNairne peers in, I'll le your cousin."

ome, then," said Nell.

d I followed her into that tasteful e cabin which, in the dim past, I rated for my own use.

ckily, it is a far more difficult task ersuade Robert van Buren to say ething than not to say anything at and though he was puzzled, and not pleased at being plunged into a tery, I extorted from him a promise lare as much as he liked at the iner but not on any account to speak. le won't know you understand Eng-" I said, determining to strengthen ir Alec's mind, by every means in power, the impression of Robert's hness

ad just arranged matters when Nell

world

"Did she really ?" the poor chap asked, his face flushing up-not with rage this time.

'She did, indeed."

"Thank you," he said abs n:-mindedly. He thought for a moment, and then spoke quickly, "Wel', Brederode, I'm not sure that I oughtn't to apologize."

"I am sure, Sir Alec." Alb. answered. But he was smiling. "Here goes, then." The big Scotsman

held out his hand. The tall Dutchman in the blue overals too'd it.

"I don't know about you, Starr." said Sir Alec. "I'm inclined to feel that you, at all events, have treated me rather badly. As my wile's-

"I've meant well all through," I broke in hurriedly. "And just now I gave you a bit of good advice. You'll thank me when you've taken it."

"Perhaps I will take it," he muttered. "Hurrah !" said Alb. "The grand pressure of the whole flock of us is forcing the barrier apart. We shall make our way through in a few minutes now."

"Good-by, then, all," exclaimed Sir Alec. "I must be getting back to my boat. The bargees don't mind me much now it's dawned on their intelligence that I'm neither mad nor an anarchist. Brederode, I congratulate you on your engagement to Miss Van Buren. I hope, Miss Van Buren, that you will be very happy. As for me, probably I shall leave Holland to-morrow."

With that he turned his back upon us resolutely and made off, scrambling on board the barge jammed nearest "Mascotte's" side. So he went on, from one to another, until he had disappeared from sight.

"Miss Van Buren," said Brcderode, "can you forgive us ?"

# Money-Maker for the Farmer

Sit down and carefully read "Helping Mother Nature." Chapter I. shows how mahure assists the land, and its actual fertilizing value in dollars and cents. Chapter II. shows how manure loses its value by leaching and firing. Chapter III. goes on to show how it should be kept till used. Then go on to the next chapter about how to get the fertilizer distributed for dollars and cents profit. Chapter V. suggests how much to use, and why, and where. Chapter VI. shows how corn and similar crops can be fertilized to the greatest advantage-and so on right through the book. It is a book you will have to finish when you

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pick it up-it is so vitally interesting, and you begin to see where most farmers neglect an easy profit. Spreading the manure has always been an unpleasant and unsatisfactory job.

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# THE FARMER'S ADVOCATE.

# The Engine that look m"nit of Fa

Do less "arm work" in farm work. The "strong right arm," is given a holiday by the "strong, right engine." The Chapman Engine has taken holiday by the "strong, right engine. The Chapman Engine has taken the aches and pains and human drudgery out of farm life. This engine does the work that twenty arms could not do. It is the source of power that a dozen men could not equal for endurance. The Chapman Engine certainly took "arm" out of "farm" and is doing its "thousand-times-as-much" work as arm power could do. 'It is doing this every week on every farm equipped with this big power producer. There is not one single farmer in Canada; owning from 40 acres up to the limit, who could not save money and make money by having a gasoline engine. Why have factories cut out manual labor and adopted machinery? Because machinery does more work, at less cost, and does it better. It's just as true on machinery does more work, at less cost, and does it better. It's just as true on a farm. An engine is ten times as cheap as a hired man.

# requires

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owners, too. PUMPING WATER. Discard the good old backache pump. With a gasoline engine, the pumping is nothing. The engine pumps water for

pumping is nothing. The engine pumps water for the house, the barn and stables and garden. FOR FIRE AND You can quench a fire with a GARDEN HOSE. hose quick, if you have a water system with engine and pump. WASHING WAGONS The same hose will wash AND AUTOMOBILES. wagons and the automobile and will flush out the barn and stables. The fact is, an engine will do so much on a farm that you can't run a farm efficiently without one. No, sir, you can't, you should start selecting one NOW.

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**Quality Engine** 

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"It is hard," she said, picking up fold of her white dress and playing with it nervously. "But we won't talk of it any more-ever. I must go now, and see how Lady MacNairne is."

"Not yet. One moment. There's something I must say in justice to myself," Brederode persisted.

She hesitated. And there was that in her face, that in his voice, which made me realize suddenly that my erplanations were not needed. I could trust Alb not to give me away, and, as for him, he had forgotten all about me -so had Nell. And I crept off unnoticed.

The one place for me was on board 'Waterspin,'' and before the barrier had done more than show signs of yielding I crawled over, slinking into my cabin. "Well, well !" I said to myself. "Well, well !" I said again, with my head between my hands as I sat on my lonely bunk. There seemed nothing else to say.

I stayed for a long time, until the press had broken, and we were going on at full speed once more. Then I went to a window of the kitchen, which Phyllis so much admired, and looked out. I could see the deck of "Mascotte," and Brederode and Nell, who were still alone there together.

"Well, well !" I repeated idiotically; 'it's I who did that. If it hadn't been for me-but I don't know. I suppose it was bound to happen, anyway. I wonder ?''

Then I returned to my cabin and flitted about restlessly. Soon I became conscious that I was humming an air. It was not, in itself, a sad air; but there was a certain sadness as well as appropriateness in it's meaning for me-

Giving agreeable girls away-One for you, and one for you, but never (how does it go?), never one for me !

We were stopping. We had come to Middleburg. I looked out again. Nell was on deck alone. Doubtless Alb had at last gone below to the motor-room, and was exchanging the blue overalls for something more decorous. Would he, even for the sake of conventionality, have left her at such a moment unless everything were settled ?

"Mascotte" and "Waterspin" were at rest, and I could avail myself of Alb's absence to find out if I liked. I was not at all sure that I did like. Nevertheless, something urged me to go, and before I quite knew how or why I had come there, I stood beside the pretty white figure. Nell looked up at me, radiant



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with emotion

"Oh, Mr. Starr, you were just the one I wanted to see," she exclaimed. "I was willing you to come."

"Well, I came," I said, smiling. "I'm glad you want me."

"I want to ask you what to do. I sent him away. You know, we must stop on board till Lady MacNairne's better, so-there's no hurry, and-he had to change. At first he wouldn't go without an answer. But I told him I must have ten minutes to make up my mind. He explained everything. He was never to blame. It was all Freule Menela's fault-and mine. Please say what you think. You know him 80 well; you're old friends. There's no one else I can talk to, and-I feel somehow -I have for a long time-almost as if you were a kind of-adopted brother." Brother again ! Blow after blow; let them fall now, one upon another. I had feared this, yet would not expect it. But I suppose I must unwittingly have

"That's right," said I. "Go on-little sister." The words were getting quite familiar now.

"He says that he has never stopped loving me-dreadfully-desperately-from the very first. But I was so sure it was only a fancy, and-and that when I was so bad to him, and Phyllis so kind, he began to care for her instead. Just now, when you said I must pretend to be engaged to him, I was thinking how horrid it would be for him to feel, 'Oh, if it were only Phyllis !' Didn't you suppose he was in love with Phyllis?" "Never," I heard myself assuring her;

"I'm so glad. You're sure, then, that he knows his own mind, that he isn't asking me to go on being really

"It is hard," she said, picking up a fold of her white dress and playing with it nervously. "But we won't talk of it any more-ever. I must go now, and see how Lady MacNairne is."

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#### **FEBRUARY 10, 1916**

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engaged to him just to save my feelings after that scene with Sir Alec Mac-Nairne ?"

"I'm dead sure," I said.

"You perfect dear ! I do like you. Oh, wasn't it too funny-I can say it, now we're brother and sister-he thought I might be in love with you." "Owl !" I remarked.

"And all the time I was so horribly afraid he might suspect I cared that I would hardly speak a word to him. Besides, I didn't suppose he could be bothered listening to anything I might have to say. And I felt quite sorry for him when Phyllis was engaged to Robert. Dear Phil, I've been horrid to her, too. You see, she was trying to persuade herself to take Rudolph without loving him, and I just hated her for it.'

"Oh, that was what you meant, then!" I exclaimed. "What I meant ?"

"It doesn't matter. Well, make your mind easy, sweet sister. Alb adores you -has adored you since the first moment he set eyes on you, and will till he closes them in death. That's my conviction as his lifetime friend. And my advice is, go on being engaged to him. until you marry him."

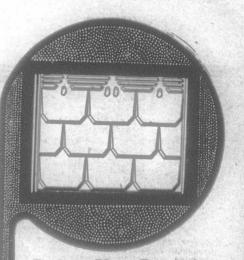
"Mariner, what an old trump you are !" broke in Brederode. And there he was behind me, neat as a pin, in his own suit of clothes, and radiant in his new suit of happiness.

"I give her to you, Alb," said I. And then I strolled away again, humming to the air of the Dead March in Saul, or something equivalent, those haunting words-

Giving agreeable girls away-One for you, and one for you, but never, never one for me ! (To be concluded.)

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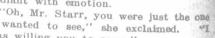
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is willing you to come."

'Well, I came," I said, smiling. "I'm ad you want me."

'I want to ask you what to do. I it him away. You know, we must op on board till Lady MacNairne's tter, so-there's no hurry, and-he had change. At first he wouldn't go hout an answer. But I told him I st have ten minutes to make up my nd. He explained everything. s never to blame. It was all Freule nela's fault-and mine. Please say at you think. You know him 80. l; you're old friends. There's no one I can talk to, and-I feel somehow have for a long time-almost as if were a kind of-adopted brother." rother again ! Blow after blow; let m fall now, one upon another. I had ed this, yet would not expect it. I suppose I must unwittingly have born a brother.

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#### Questions and Answers.

1st-Questions asked by bona-fide subscribers "The Farmer's Advocate" are answered in this

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, other wise satisfactory replies cannot be given. 4th—When a reply by mail is required to urgent veterinary or legal enquires, \$1.00 must be

enclosed. Miscellaneous.

#### Source of Suction.

I am making a machine in which I require a suction. Kindly explain how and what makes the suction in a power vacuum-cleaner. Is it made by a fan ? If so, what shape is the fan, and how is it enclosed ? A. C.

Ans .-- In some vacuum-cleaners the suction is caused by a fan. Two brushes appear on the bottom of the cleaner, and the fan placed directly above them, draws up the dirt and deposits it in the recepticle for that purpose. Another form of suction consisting essentially of some form of air-pump, drawing air through a nozzle which is passed over the material to be cleaned. The dust is carried away with the air-stream and deposited in the collecting receptacle.

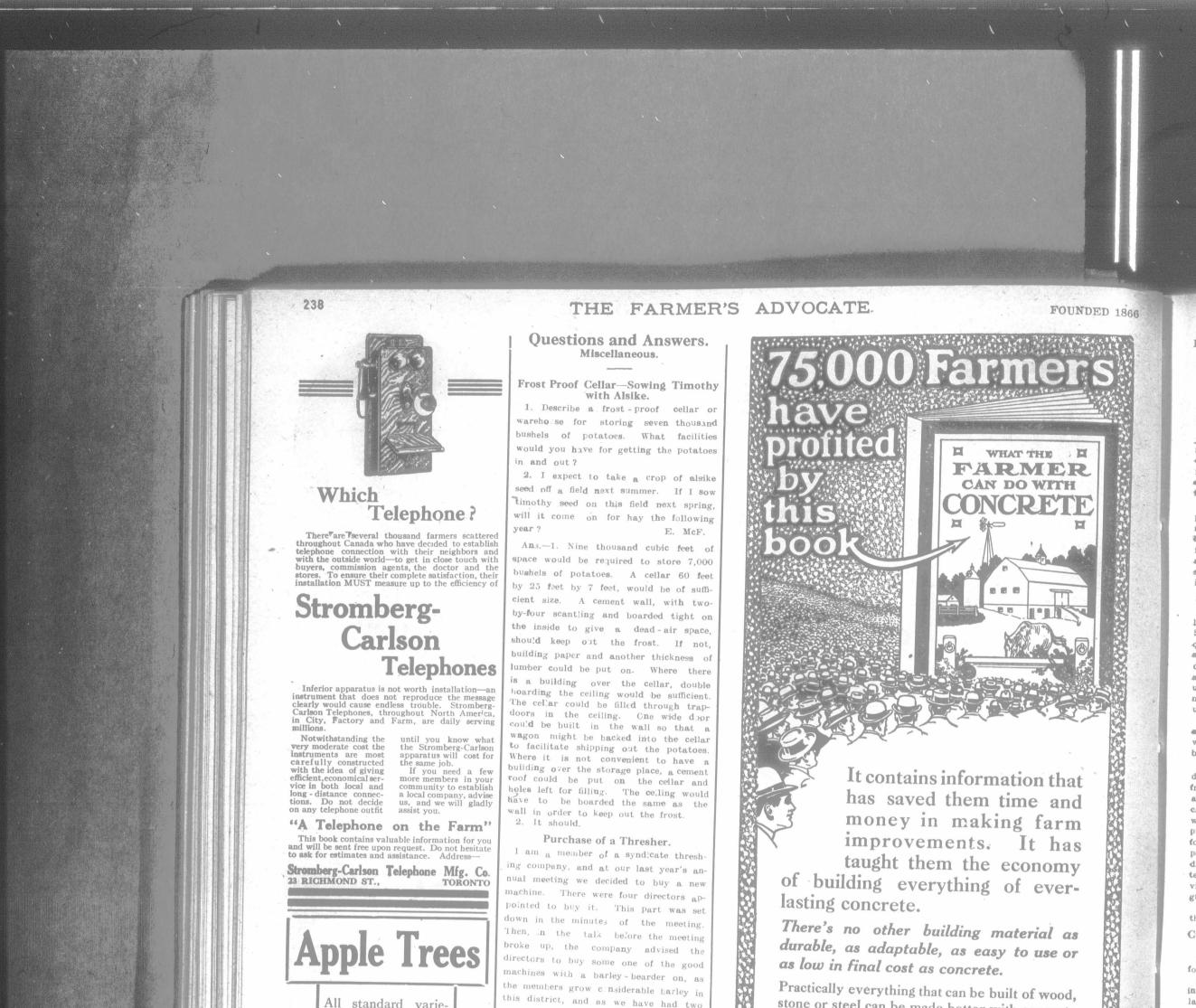
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The supply of pure maple products is far behind the demand. This means higher prices and a market ready to take all that you can produce.

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There's no other building material as durable, as adaptable, as easy to use or as low in final cost as concrete.

Practically everything that can be built of wood, stone or steel can be made better with concrete and this book tells you how to do it. It is fully illustrated with photos and diagrams and contains 52 practical farm plans.

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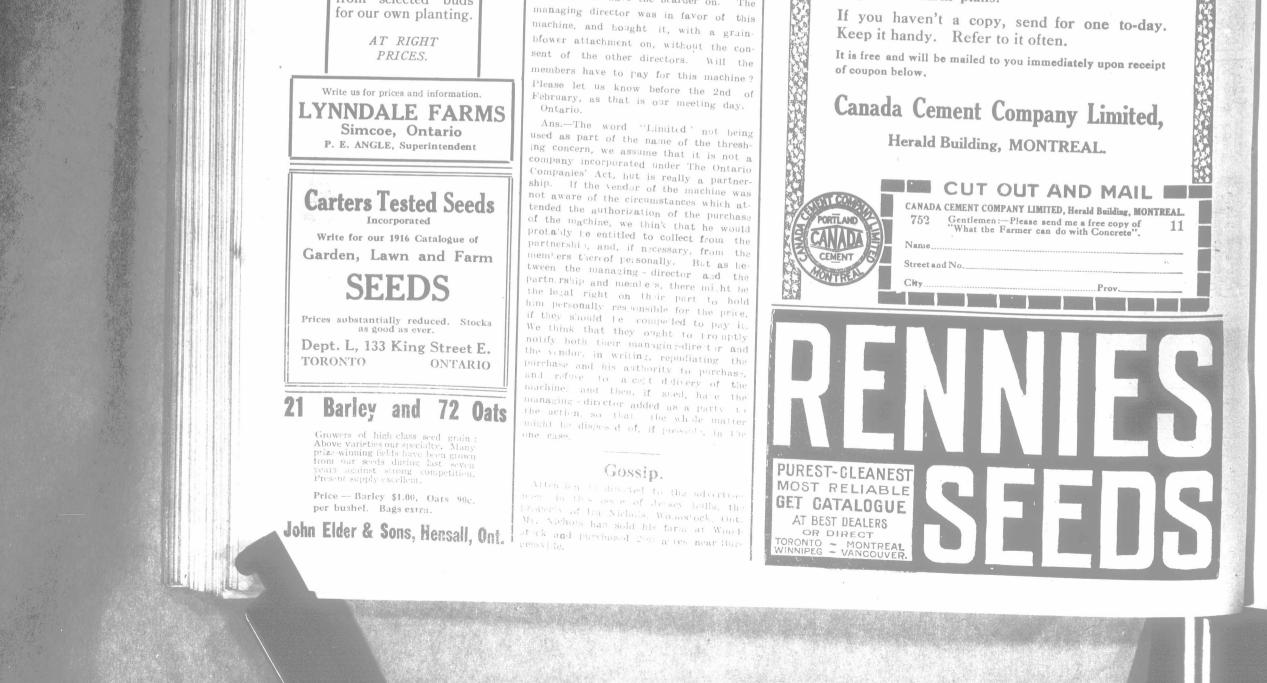
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Then, in the talk before the meeting

broke up, the company advised the directors to buy some one of the good

machines with a barley-bearder on, as

the members grow considerable barley in this district, and as we have had two

not to buy any more of that kind, as

they did not slit the members, because

they did not have the bearder on. The

machines, the directors were told

**Apple Trees** 

All standard varie-

ties. Large, strong

and clean. Grown

with special care

from selected buds



nformation that them time and making farm ents. It has n the economy thing of everlding material as as easy to use or concrete.

can be built of wood. better with concrete v to do it. It is fully liagrams and contains ,

#### **FEBRUARY 10, 1916**

#### Questions and Answers. Miscellaneous.

#### Concrete for a Wall.

Please publish, through the columns of your valuable paper, the number of barrels of cement and yards of gravel required to build a foundation wall 70 feet long, 8 feet high above the ground, and two feet below, the wall being 1 foot thick ? B. R. H.

Ans .- Mixing in the proportions of ona part cement to nine parts gravel, it will require about 28 yards of gravel and 20 barrels of cement, to build the wall. A few small stones might be used and save a little on the gravel. However, the stones should not come within two inches of either face of the wall.

Stringy Milk-Twin, Heifers Calves. 1. We have a Holstein cow, and the last two years her milk gets stringy. Sometimes she is affected only in one quarter, then again in two or three, and sometimes in the four quarters. Some days it is quite thick, and it will gradually disappear and then reappear. This usually appears about the last two months of her milking. Kindly advise us as to the cause and remedy.

2. This cow had twin calves (helfers), and as they are fine, big calves, we would like to raise them if they will breed. M. L.

Ans .-- 1. The stringy milk is possibly due to abnormal changes in milk which frequently accompany an inflamed udder, and is called garget. Sometimes it is caused from an injury, or it may appear without any appreciable cause. Give a purgative of 11 lbs. Epsom salts, and follow up with a teaspoonful of saltpetre in a pint of water as a drench, daily, for a week. If the affected quarter is swollen, bathe with hot water and vinegar, then rub twice daily with goose grease and spirits of turpentine. 2. Where twin calves are both heifers,

they usually breed all right.

Curing Pork-Keeping Fowl in Condition.

1. Please give a recipe for curing pork for summer use.

2. What is the best way to keep fowl in good condition? I had a lot die last spring after they were a few days old. Some of the old fowl had what was called gapes. MRS. S. H. Ans.-1. The following methods of curing pork have been recommended : To salt pork dry, take a mixture of 4 lbs. fine salt,  $1\frac{1}{2}$  lbs. brown sugar and 2 ounces saltpetre and apply lbs. meat. Apply three times for hams and shoulders, and twice for bacon. Rub the mixture well in at intervals of about a week. Hams and shoulders may be put in pickle. Seven pounds of salt, 11 lbs. of granulated sugar, and 2 ounces saltpetre, are used for every 100 lbs. of meat. This mixture should be well rubbed into the meat, and then pack the meat in a cask, using all the salt, then cover with cold water. It is best to give the cask a roll once a week. In about seven weeks the hams may be taken out and soaked twelve hours before using. 2. Good feed and proper housing are necessary to keep fowl healthy. Give exercise by making them scratch for their feed. Plenty of clean water for the birds to drink is essential. In case of young chicks dying, it may be due to a low degree of vitality in the parent stock, or improper feeding of the chick. Delay feeding the chick until it is at least 36 hours old, then give a drink and some chick-grit. Hard-boiled eggs and bread crumbs chopped up together make a satisfactory feed for the first few days, and then small wheat may be fed. All birds affected with gapes should be isolated, in order that the worms coughed up or voided with the excrement may not be eaten by other chicks, or contaminate the ground. All runs should be disinfected. The individual surgical method seems to be the only sure method of ridding an infested bird of the parasites. This is done by taking two straight hairs from a horse's tail, tying the ends, and passing them down the windpipe. After giving a twist between the thumb and finger, draw out, and usually several worms will be attached to the hair. Repeat several times, and the worms will be nearly all dislodged from the windpipe.

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40 horse power

Four Cylinder Models

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passenger

# **–POWER** that laughs at the heaviest roads

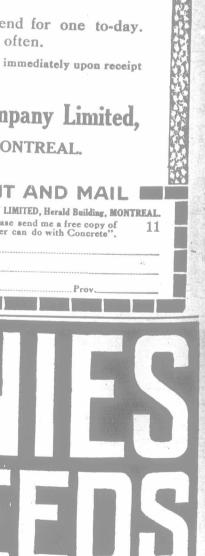
Never in the history of the industry has there been a 4-cylinder car that offered so much POWER at its price as this new SERIES 17 Studebaker. Never has there been offered to the man living in the country, to the man running a farm, to the man driving over the muddy roads and the trying hills a car with such masterful yet ECONOMICAL power as this SERIES 17 Studebaker possesses.

POWER with economy of gasoline has always been a Studebaker ideal. And this car's big, 378-inch bore x 5-inch stroke motor develops and delivers FULL Forty Horse Power with a surprisingly low consumption of fuel.

It is the ideal car for the man operating a farm-big, light and sturdy and easily operated. It has room for SEVEN to ride in COMFORT. It is handsome in design and finish. It incorporates many new refinements of design such as the tank in rear with Stewart Vacuum Feed; DIVIDED and adjustable front seats; overlapping, storm-proof windshield; self-starting and lighting control and other instruments conveniently located on dash, illuminated by new indirect lighting system. And taken from any angle, it offers the BIGGEST value, dollar for dollar of the price, that the industry has ever seen.

See this new SERIES 17 Studebaker at once-and write for handsome catalog.





#### THE FARMER'S ADVOCATE.

FOUNDED 1866



THE TIME, NOW All the winter long, the troubled owner of a lame horse reads our advertise-ments. Then, day after day slips away while he talks, laments, listens, takes advice and hesitating-FAILS TO ACTtill the Springtime is on him and his horse is not yet able to work. Meantime the thrifty, prosperous, resolute man reads, considers the evidence carefully -Decides Promptly - and his horse is quickly cured, worked, too, if needed. That's exactly what happens every winter.

"I Want the Whole World to Know What It Has Done For Me." -- Frank Stevens, of Greenwood, Ind., and adds: "Save-The-Horse has cured bone spavin, thoroughpin, and one with a sprained stifle." Our Charges for Treatment ARE MODERATE.

But write for our 96 page "SAVE. THE . HORSE BOOK "-it is the last word on the UP.TO.DATE treatment of 58 kinds of Lameness-Ringbone-Thoroughpin - SPAVIN - and ALL Shoulder, Knee, Ankle, Hoof, and Tendon Disease, - Fully ILLUSTRATED.

WE ORIGINATED the plan of giving a Signed Contract Bond to return money if remedy fails. But write. BOOK, Sample Contract and ADVICE. ALLFREE (to Horse Owners and Managers). Address TROY CHEMICAL CO., 145 Van Horn St., Toronto, Ont Made in Canada

Druggists Everywhere sell Save-the-Horse with CONTRACT, or we send by Parcel Post or Express paid.

#### For Sale: Clydesdale Stallion Rising Registered Clydesdale Stallion 4 years Lothian Treasurer [15360]

Bright bay, four white feet and white face: weighs 1.800 lbs., and quality from the ground up; has proved himself very sure on a limited number of mares served this season. Dam Sire

Dam Sire Queen of the Roses....Craignair Queen of the Clydes....The Treasurer Net Derby....Corswall's Grandson Maggie McNeilage Lord Derby Polly of Humber...McNeilage Lill....Nelson Lucy of Castlemore. Nellie.... Nelson Prince of Kilblain Lord Derby Just in Time Old England (Dams all

registered) Cumberland The above sires are all imported and registered Apply to: DAVID CORDINGLEY R.R. No. 2 Streetsville, Ont



Will reduce Inflamed, Strained. Swollen Tendons, Ligaments, Muscles or Bruises. Stops the lameness and pain from a Splint. Side Bone or Bone Spavin. No blister, no hair gone. Horse can be used. \$2 a bottle delivered. Describe your case for special

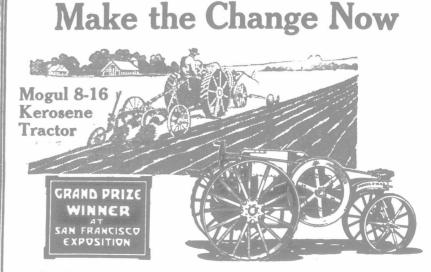
the village of Dundalk, on the Owen Sound line of the C. P. R. For twentyfive years McPherson & Sons have been breeding Shorthorns, their original foundation stock all being purchased from the noted Greenwood herd of the late Arthur Johnson. This fact alone will be all the evidence needed relative  $t_0$ the herd's breeding on fashionable and modern lines. The herd, now 70 strong, is made up of Bruce Fames, Florences, Miss Ramsdens, Minas and Emilys, daughters of Imp. Cyclone, Imp. Lord Roseberry, Imp. Royal Archer, Imp. Choice Kora. The Crimson Flower-bred Broomwell, by Imp. Premier Earl; the Dairy Maid-bred Lord William, a grandson of Imp. Indian Chief; the Ceciliabred Lord Cecil, a son of Imp. Lord Kintore; the Bessie-bred Earl Derby, a son of Imp. Derby, and the present stock bull, Royal Red Blood, a son of Imp. Blood Royal, and out of Imp. Red Rose. They are an exceptionally strong herd of cattle, and all in the nicest kind of breeding condition. There is a big selection in on and two-year-old heifers for intending purchasers, and many good ones there are among them. In young bulls there are several of breeding age, Miss Ramsdens, Blythsome Girls, Crimson Flowers and Emilys, reds and roans; a level, mellow, splendidly-fleshed lot. Parties wanting Shorthorns should visit this herd. The selection is a big one, and the quality the kind that pays the

mortgage.

Gossip. SPRUCE GLEN SHORTHORNS.

The 734-acre Spruce Glen Farm, owned by James McPherson & Sons, is situated in the County of Grey, five miles from

J. M. GARDHOUSE'S BIG SALE. As stated in last week's paper, the offering in Shorthorns to be sold at J. M. Gardhouse's big sale at the Union Stock Yards, West Toronto, on Friday, February 18, will possess rich, fashionable breeding and show-ring merit to an exceptional degree. Among the bulls t, be sold is the famous proven sire, Benholme Butterfly (imp.), a roan Cruickshank Butterfly, nine years old, active. safe, and sure, and a sire of sterling merit. Another great hull to be sold is the Augusta-bred, O. A. C. Augustine. a son of the famous Loyal Scott (imp.). and out of College Augusta. He is a roan four-year-old, a most successful sire. and a low, thick, mellow bull. He is one of the good ones, and his breeding cannot be surpassed. Among the younger hulls is a son of the great Gainford Marquis (imp.), and out of Belmar Averne, by the Toront chan Marigold Sailor. This is a show calf all over, a roan, five months old, and him dam, which will also be sold, is one of the best cows in Canada to-day There are also several other young bulls from ten to fifteen months of age. Highclass herd-headers among them are Nonparells, Villages, Jilts, English Ladys, Bessies, Crimson Flowers, etc. Parties wanting a herd-header should attend this Among the females are a number sale. of high-class show things, particularly among the heifers, representing such popular tribes as Jealousys, Mysies, Rachels, English Ladys, Miss Ramsdens, Rosemarys, Golden Hope, Village, Strathallans, etc. Many of them are imported, many others by imported sires, and out of imported dams, and nearly all by imported sires. The cattle-breeding business in Canada has a future of promise and financial profit the brightest in the country's history, and the offerings at this sale are the class of cattle that are sure winners, for all are breeders. Of the 699 cases of marital unhappiness heard in the Chicago Court of Domestic Relations during a single year. the following causes of friction were Matell. Ill-temper, 11 per cent. Interference of wife's parents, 6 per Cent. Interference of bushand's parents, 1 per Cemt.



HESE are the days of heavy horse power expense. The horses are idle. Hay and

oats are worth so much it's a shame to use them for feed. It takes five acres of land to raise enough to feed one horse one year. Horses are at the top of the market, with prices higher than for years past. The market for horses is so good that, even at these higher prices, they are easy to sell. What better time could there be to consider replacing some of your horses with a Mogul 8-16 kerosene tractor?

You can use a Mogul 8-16 with profit for about all the work you are now doing with horses - the tractor does it better and cheaper. It takes less of your time to care for it. It increases the amount of land you make a profit from-five acres for every horse it replaces. It is the right size for most of your belt work. It burns any fuel oil-kerosene, naphtha, benzine, motor spirits, enabling you to use the cheapest fuel you can buy.

Why not plan to sell some of your horses now and save the winter feeding? **Mogul 8-16** will take their place and do your spring work in time. Write today for our 100-page book "Tractor Power vs. Horse Power," which we will send promptly if you'll only ask for it. Write us at the nearest branch house.



OF THE FAMOUS "FAIRVIEW FARMS" STOCK OF CLYDESDALES, SHORTHORNS and SHROPSHIRES

The property of the estate of the late DON.



Disease, 13 per cert. Immorality, 11 per cent. Married too young, I per cent I aziness, 3 per cent. Miscellanco's, 6 per c Liquor, 42 per cent. Some lessons are bound op with the above statistics

J. CAMPBELL, of Woodville, will be held at the farm on

# Friday, February 18th, 1916

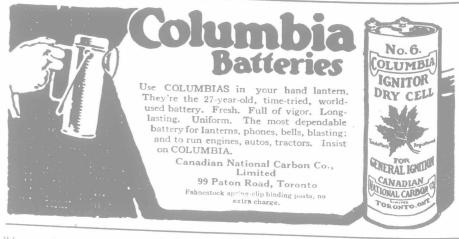
when the entire stock will be sold absolutely without reserve. The stock consists of imported and Canadian bred registered Clydesdale mares and fillies and a number of first-class geldings, 20 head of registered Shorthorn cows, heifers and bulls of the famous "Mysie" and "Strathallan" families, and a number of splendid grades, together with 70 head of imported and home-bred breeding and show Shropshires. The flock that made "Fairview" famous in the show yards all over the continent. "Bred up to a standard, not down to a price," for the past 35 years. This sale offers an opportunity to breeders to improve their flocks, with the very best stock, obtainable on the continent at improve their flocks with the very best stock obtainable on the continent at absolutely unreserved prices.

Woodville is 65 miles from Toronto on the Midland Division, G. T. R. Two trains each way daily. Conveyances will meet trains on day of sale. Sale at 12.30 o'clock sharp. Lunch served.

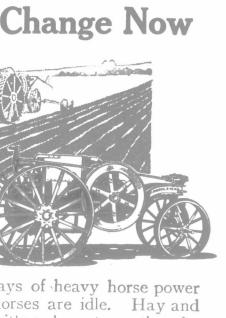
Terms cash. Purchasers from a distance will be expected to have checks marked or a line of credit from their bank.

Catalogues of the live stock may be had on application to the executors.

N. W. ROSS, Cannington, Ont. • JOHN P. CAMPBELL, Woodville. GEO. JACKSON, Auctioneer



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with profit for about all the work = the tractor does it better and ir time to care for it. It increases a profit from-five acres for every ht size for most of your belt work. e, naphtha, benzine, motor spirits, est fuel you can buy.

of your horses now and save the will take their place and do your today for our 100-page book er," which we will send promptly e us at the nearest branch house.



**FEBRUARY 10, 1916** 

Backache

Lumbago

**Stiff Joints** 

ANGEROUS

**Sprains** 

Gombault'sCaustic Balsam

WILL RELIEVE YOU.

It is penetrating, soothing and healing and for all Seres or Wounds, Felona, Exterior Cancers, Burns, Boils, Carbuncies and all Swellings where an extward application is required CAUSTIC BALSAN HAS NO EQUAL Removes the soreness-strengthens the muscles. Price 91-86 per bottle. Sold by druggings or sent by us express prepaid. Write for Booklet L

The LAWRENCE-WILLIAMS COMPANY, Tereste, Pan.

No matter how old the blemish, ow lame the horse, or how many doctors ave tried and failed, use

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Spavin and Ringbone Paste

Use it under our gaurante-your money re-funded if it doesn't make the horse go sound. Most cases cured by a single 45-minute appli-cation-occasionally two required. Cures Bone Spavin, Ringbone and Sidebone, new and old cases alike. Write for detailed information and a free copy of

Floming's Vest-Pocket Veterinary Adviser Ninety-six pages, durably bound, indexed and illustrated. Covers over one hundred veter-inary subjects. Read this book before you treat any kind of lameness in horses.

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Will keep your horses ready for work when you want them. No lay-ups, and time lost, because sore shoulders or other wourds. s wonderful old-time remedy is need to cure Collar and Saddle Cills he harness while the horse works or

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idard for bruises, cuts, rope burns or any ids on horses or cattle. Excellent for mange

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**Make Your Lame Horse** 

Sound, Like This

**75 Church Street** 

as well as painful Neuralgia

Rheumatism

# THE FARMER'S ADVOCATE.

#### Questions and Answers. Veterinary.

#### Indolent Sore.

We blistered a mare's hock last June. Some of the blister got on the front of the hock, and there is a small spot that will not heal. H. W.

Ans.--A proper blister, properly applied and properly looked after, will not give such results. Apply to the raw spot a little butter of antimony with a feather once daily for three or four days. Then dress three times daily until healed with 1 part carbolic acid to 25 parts sweet oil. V

#### Recurrent Attacks of Colic.

I bought a horse recently. He has had three severe attacks of colic in a week. He is fed on bran, oats, and good hay. Is there any permanent cure ? E. B.

Ans .- Some horses are predisposed to colic, and for such, or in fact for any horse, no permanent cure has been discovered. It is possible that the change of food has caused the trouble in this case. Give him a purgative of 8 drams aloes and 2 drams ginger. Feed bran only for 24 hours before and 24 hours after administering the purgative. Then mix equal parts ginger, gentian and nux vomica, and give a dessertspoonful three times daily. If he has an attack, give 11 ounces each of laudanum, tincture of belladonna and sweet spirits of turpentine in a pint of cold water as a drench. Repeat if necessary in 11 hours.

#### Oedema.

Last fall mare's leg swelled and the swelling extended and involved the breast. I had her treated, and the swelling all disappeared except between fore legs. worked her some and the swelling recurred. She again recovered, except for a swelling between fore legs. Since New Year the swelling has recurred. Her breast is very hard, but not sore. She eats and looks well, and when exercised she goes stiff. D. T.

Ans .- Purge her with 8 drams aloes and 2 drams ginger. Follow up with 1 dram iodide of potassium three times daily. If this interferes with her appetite reduce the dose to 40 grains. Get a liniment made of 4 drams iodide of ammonia,  $\frac{1}{2}$  ounce tincture of iodine, 2 ounces tincture of arnica. 3 drama gun camphor, 1 ounce oil of turpentine, 4 ounces extract of witch-hazel, and alcohol to make a pint. Rub a little of this well into the swelling twice daily. If this blisters, cease applying it, and apply sweet oil daily until the scales come off, then apply the liniment again. V.



A Live Tip to

# **Fit Any Collar**

Without adjustment. They are 'made of a good quality drilling and are filled with our own spec-ially prepared composite stuffing. It is soft and springy. Porous and very absorbent. Quickly dries out after being used. These pads fit the neck and shoulders of your horse and prevent all chafes, galls and sores.

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We also make a complete line of riding saddle pads. Ask the Dealer for Tapatoo book of emergency horse remedies FREE.

The American Pad & Textile Co., Chatham, - - · · Ont.

# **Percheron Stallions** and Mares

All imported from France, four to seven years old, all proven foal-getters, government proved, and first-class certificates. Weights from 1,900 to 2,100 lbs,, blacks and grays. I am going to close them out, and now is your opportunity to get a good stallion at your own price and terms to suit. Write at once, or better come. Address:

J.B. HOGATE - - Weston, Ontario

High-Class Clydesdale We have a big selection of Imp. Clyde. Mares and Fillies and others Mares and Fillies from Imp. Sire and Dam. Buy now, for another year will see them away up in price. We have always a big selection of stallions.



Columbus, Ont.,

Myrtle, Brooklin and Oshawa Stations **Imported Registered Stallions and Mares** In Percherons we have our very best to offer: Blacks and Grays, 3 to 5 years old. Belgians and Clydesdale Stallions: right type and quality. These have all been tested in the stud, and guaranteed good foal getters. Mares from 2 to 5 years old, Percheron. Clydesdale and standard bred, these are over 3 years old, all safe in foal. If you want a Champion Stallion or Mare, come along and we will sell for less money than any other man in the business, and terms to suit. Graville is situated midway between Ottawa and Montreal on the C.P.R., C.N.R. and G.T.R. Two trains daily each way. Two trains daily each way.

J. CAMPBELL, of Woodville, at the farm on

# ary 18th, 1916

olutely without reserve. The stock conegistered Clydesdale mares and fillies 20 head of registered Shorthorn cows, sie" and "Strathallan" families, and a ith 70 head of imported and home-bred flock that made "Fairview" famous in "Bred up to a standard, not down to ale offers an opportunity to breeders to st stock obtainable on the continent at "Bred up to a standard, not down to

to on the Midland Division, G. T. R. rved.

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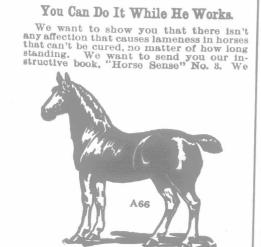
e had on application to the executors.

JOHN P. CAMPBELL, Woodville. **N**, Auctioneer



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Lyman Bros. Co., Ltd., Toronto, Ont., Distributors to Drug Trade.

Registered Clydesdale Stallion, Canadian bred, young; would deal for pair or mares, 2, 3 or 4 years old. Apply R. E. WOODWORTH, Box 8, Lynden P.O.

Ontario have many.

#### Fatality in Mare.

1. Mare was sick one morning. treated her for colic, but she got no better. I then sent for a man, who said that she had inflammation of the howels. She died a few minutes later. A postmortem revealed a portion of the large intestine black, and full of black blood. Was this man's diagnosis correct, and what should the treatment have been ?

2. The stomach contained bots attached to its walls. Probably 100 all told. How did they get there, and did W. J. M. they kill the mare?

Ans .-- 1. The man's diagnosis was correct, but treatment after he saw the patient, of course, would have been useless. Cases of this nature usually prove fatal. Treatment consists in giving large doses of opium, two to three drams of the powdered drug every two or three hours, keeping as comfortable as possible, and applying cloths wrung out of hot water to the abdomen.

2. The bots did no harm. They never do harm except in cases where they are very numerous and let go their hold in such large numbers that they plug the opening into the intestine. The mare swallowed the eggs of the gad-fly last summer, and these hatched out, then attacched thems: lves by their tails to the walls of the stomach and grew larger. Practically all horses have bots, and those that have been exposed greatly to attacks of the fly, as those on pasture. or working at slow work in the fields,



L. O. CLIFFORD,

Oshawa, Ont.

#### Provincial Sale of Outstanding merit is the prevailing Pure-bred Stoc

#### (MALES) The Annual Provincial Sale, under the auspices of the Ontario Department of Agriculture and the management of the Guelph Fat Stock Club, will be held in the Winter Fair

Buildings, GUELPH, on Wednesday, March 1st. 1916

At this sale will be offered a number of choice animals, all Shorthorns. For catalogues and further information, apply to:

**C. L. NELLES**, J. M. DUFF. President. Secretary.

ALLOWAY LODGE STOCK FARM Angus, Southdowns, Collies

Special this month.

Southdown Prize Rams ROBT. McEWEN, R.R. 4, London Ont.

For Sale---Price \$200 Reg. Aberdeen-Angus Cow. No. 5937. Elm Park Keepsake 14th Bred by Mr. James Bowman, Guelph. Calved, March, 1912. Due to calve, March, 1916. Weight about 1,400 lbs. In splendid condition.

APPLEBY SCHOOL, OAKVILLE, ONT.

#### **Bulls** Angus 4 young Aberdeen-Angus bulls, well bred,

from 4 to 10 months old. Reasonable price for quick sale, also heifers. M. G. RANSFORD

Clinton,

Aberdeen-Angus The cattle now in demand. Some choice heifers and a few young bulls from the im-ported sire, "Prada-mere". Apply to: A. DINSMORE, Manager "Grape Grange" Farm, Clarksburg, Ontario

Ontario

Middlebrook A. Angus—For Sale are several choice prize-winning sons of my 1915 gr. champion bull, Black Abbot Prince, and his Toronto and London 1st prize ½ brother, also winning daughters of the same. John Lowe, Elora, Ont., R. M. D.

Balmedie Aberdeen Angus Geta high-class Angus bull and breed the champion steers. I have show-ring quality bulls from 10 to 24 mths. of age, also choice 1 and 2-yr-old heifers T. B. BROADFOOT FERGUS, ONT.

Gossip. LYNDEN HOLSTEIN HERD.

characteristic of the high - class Holstein herd of S. Lemon & Sons, of Lynden, Ont. This, too, is only the natural result of the line of breeding and development the Messrs. Lemon have carried out for many years relative to their breeding operations. The herd's big producing abilities are explained when it is known that the last four stock bulls in service were : First, a son of De Kol Plus, 22,300 lbs. milk; 956 lbs. butter in R. O. P. test. Second, a son of Evergreen March, 26,100 lbs. milk; 1,128 lbs. butter in R. O. P. test. Third, a son of Plus Pontiac Artis, 20,900 lbs. milk; 985 lbs. butter in R. O. P. test. Fourth, a son of Daisy Pauline Pietertje, 23,800 lbs. milk; 1,037 lbs. butter in R. O. P. test. Her best one day's milk was 110 lbs., and eight months after calving she made, in R. O. P. test, 20.72 lbs. butter, and her dam is the only cow in Canada with two daughters giving 110 lbs. each in one day. This bull is now in service, and is, on his sire's side, a half-brother to May Echo. Her record in R. O. M. was 31.34 lbs.; in R. O. P. 23,707 lbs. milk and 1,042 lbs. butter Among the high-class cows in the herd are such good ones as Pansy De Kol Artis, R. O. M. 24.71 lbs. in seven days, and 102.83 lbs. in thirty days. She is a daughter of De Kol Plus mentioned above, and the dam of Plus Pontiac Artis, 20,900 lbs. milk, and 985 lbs. butter, R. O. P. test, average butter-fat test 3.75 per cent. as a three-year-old, which is the Canadian record for the age. Her sire was a son of Pontiac Korndyke. This cow is also the dam of Pontiac Korndyke Plus, a two-year-old son of Inka Sylvia Beets Posch, the sire of May Inka Sylvia, whose one-day milk record 36.33 lbs. This two-year-old bull is for sale, and with such breeding is fit to head the best herd in Canada, as his sire is the only bull in this country with two daughters over the 33-lb. mark. The first cow mentioned, Pansy De Kol Artis, is the dam of the yearling Guelph champion bull, Plus Inka Artis, whose sire was also Inka Sylvia Beets Posch. Here is a young herd-header for someone, whose breeding can scarcely be duplicated in the country. Another great cow is Inka Artis De Kol, 12.968 lbs. milk as a two-year-old in R. O. P., average test 4.63 per cent. She is a full sister to the young bull first mentioned. These three cows mentioned are all running in the test this year, and are all expected to beat the 20,000-lb. mark. Queen Ann Evergreen made 10,-

GREAT AUCTION SALF **Head of Scotch Shorthorns 45** 

THE FARMER'S ADVOCATE

By Public Auction without reserve on

#### Friday, at 1 p. m., February 18th, 1916

AT UNION STOCK YARDS, WEST TORONTO, ONT.

Having recently purchased the entire herd of Shorthorns from Mr. John Milton, of Brantford, Ont. I have decided to sell, without reserve, a number of these animals, and a selection from the Rosedale Farm herd. The offering includes four imp. cows and one imp. bull, and many from imp. sire and dams of the best families obtainable. A number of these were bred by H. Cargill & Son, Cargill, Ont.

#### THERE ARE 15 BULLS AND 30 FEMALES

cows in calf and cows with calves at foot, together with a choice lot of young heifers and bulls. These animals are in good breeding condition, and not specially fitted for a sale, but there are some show animals of high order. There will be one of the best young bull calves, sired by the great champion and sire of champions, Gainford Marquis, and also the dam of this calf, being one of the best cows offered to the public in recent years. Also heifers by such well-known show and breeding bulls as "Browndale" and "Trout Creek Wonder." This will be a great opportunity to secure a show animal, a herd header, some money makers or foundation stock.

Write for catalogue.

J. K. McEwen Capt. T.E. Robson Auctioneers J.M.Gardhouse, Weston, Ont.

Elm Park Aberdeen-Angus Our herd has won more prizes since 1893 than money than any competitor from Toronto and London to Edmonton, at all fairs except Brandon, proving that our herd continues to keep up the high average quality. Bulls and females for sale. JAMES BOWMAN, Elm Park, Guelph, Ont.

# 20 IMPORTED BULI

These imported bulls, along with 10 home bred bulls may now be seen at our farms. There are some choice ones among them. We also imported four cows and a heifer, all of which are forward in calf. An invitation is extended to anyone interested in this class of stock to visit us at any time. Gorrespondence will receive our most careful attention. Burlington Jct. G. T. R. J. A. & H. M. PETTER Burlington phone or telegraph.

J. A. & H. M. PETTIT. Freeman, Ont.

FOUNDED 1866

Robert Miller Still Pays the Freight—And he is offering in Shorthorns some of the best some younger still; heifers fit for service and younger, and some in calf. They are of the best made right, just what you want to make a proper foundation for a good herd, and suitable to im-prove any herd in the land. They will be priced so that you can afford to buy, if you will tell me what you want. Our business has been established 79 years, and still it grows. There is a reason. ROBERT MILLER Scouffyille. Ontard ROBERT MILLER, Stouffville, Ontario

**Cloverlea** Dairy Farm offers for sale a choice 23 lb. bull ready for immediate service. Write from our herd Sire Pontiac Norine Korndyke, from R. O. M. dams which will be priced **GRIESBACH BROS.**,

Collingwood, Ontario.

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When in want of Shorthorne We have 70 **Spruce Glen Shorthorns** Fames, Miss Ramsdens, Florences, Emilys, etc. Many of them one and two-year-old heifers. Alo several young bulls of breeding age—level, thick, mellow fellows, and bred just right. JAMES MCPHERSON & SONS, DUNDALK, ONT.



CTION SALE h Shorthorns 45 without reserve on ebruary 18th, 1916

#### S, WEST TORONTO, ONT.

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#### LS AND 30 FEMALES

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Gardhouse, Weston, Ont.

Our herd has won more prizes since 1893 than ny herd in Canada, and in 1915 we won more on to Edmonton, at all fairs except Brandon, average quality. Bulls and females for sale. MES BOWMAN, Elm Park, Guelph, Ont.

ED BULI

may now be seen at our farms. There are some cows and a heifer, all of which are forward in d in this class of stock to visit us at any time.

J. A. & H. M. PETTIT. Freeman, Ont.

he is offering in Shorthorns some of the best can be produced. Young bulls fit for service, ager, and some in calf. They are of the best ing families. They are in good condition and indation for a good herd, and suitable to im-that you can afford to buy, if you will tell me 9 years, and still it grows. There is a reason, BOURDER MULTER Constants (Constant) ROBERT MILLER, Stouffville, Ontarie

23 lb. bull ready for immediate service. Write ave also a limited number of choice young bull om R. O. M. dams which will be priced

#### Collingwood, Ontario.

NOTIONS When in want of Shorthorn visit our herd. We have 70 head to select from. Minas, w follows and two-year-old heifers. Also ow fellows, and bred just right. cPHERSON & SONS, DUNDALK, ONT. IG QUALITY We have this year the best lot of young bulls we ever bred tchless and Emmelines, they are all of show**FEBRUARY 10, 1916** 

#### Apiculture Short Course a Success.

This Short Course was held at the Ontario Agricultural .College, Guelph, Jan. 11 to 22, 1916. Owing to war conditions a large attendance was not anticipated. On the opening day, however, there was an attendance of twentyseven, later increased to thirty - five young men and a few ladies. Practically every one of these had been previously engaged in beekeeping. They included beekeepers owning one hundred or more colonies, sons of successful beekeepers, and in one case a beekeeper's hired man. Many different parts of Ontario were represented, also Quebec, and the State of Michigan. The get-together spirit was much in evidence, and the interest shown at all the lectures was very gratifying. It is the purpose of this course to give the underlying principles of bee nature, a knowledge of which is essential to successful bee management. Fifty-nine lectures and demonstrations were given, covering the different phases of beekeeping. Typewritten copies of each lecture outline were distributed to the class so the main points could be followed closely and carried home for future reference. As far as possible the lectures were illustrated with stereopticon views, and the actual objects under discussion. Members of the class were also given laboratory practice in hive construction, and a visit was made to the apiary, of a successful beekeeper in the neighborhood of the College.

One important feature of the work was the display of apiarian apparatus and implements. The educational value of this was clearly demonstrated by the keen interest shown by those present. In conducting this course, the Provincial Apiarist, Morley Pettit, was assisted by F. W. L. Sladen, Apiculturist,

Central Experimental Farm, Ottawa; F. E. Millen, B.S.A., Lecturer in Apiculture anh State Inspector of Apiaries for Michigan; F. W. Krouse, President of the Ontario Beekeepers' Association; James Armstrong, Selkirk, Vice-President of the Ontario Beekeepers' Association; also mome of the apiary inspectors of Ontario. Lectures on allied subjects were given by other members of the College staff. Frank C. Pellett, State Apiarist of Iowa, paid the class a visit, and lectured on beekeeping conditions in his Throughout the course there were many kind words of appreciation by members of the class, and on the last day a vote of thanks was tendered Mr. Pettit and the other instructors for the valuable information received and the systematic arrangement of the work. It is proposed to hold a Summer School for beekeepers at the Ontario Agricultural College some time in June, when bees are active and a lary practice will be possible. Persons interested should write at once for particulars to Morley Pettit, Provincial Apiarist, Guelph, Ont.

# THE FARMER'S ADVOCATE.

# A High-Grade Six-Cylinder Car for \$1,110 " F.O B. OSHAWA "

AUCHILD

Live Farmers acknowledge that an automobile is a necessity nowadays-that it is a profitable investment. The vital points remaining for consideration are "MONEY VALUE" and "SERVICE."

# Value

# Service

Dollar for dollar, the 1916 McLaugh-lin six-cylinder "Valve-in-Head" motor car insures its owner greater VALUE than any other car. We challenge comparison with any car at any price.

Twelve branches throughout Canada guarantee a "Service" unsurpassed in the Dominion. Over fifty years of business experience with Canadian farmers testify as to our reputation for quality and square dealing.

243

IMPORTANT. There is no reason-good or bad-why you should buy a four cylinder car, when you can own a powerful, high-grade McLaughlin six-cylinder "Valve-in-Head," 5 passenger touring car for the same or less money.

Write to-day for our free booklet. "Farm Life and Freedom."



WALDEMAR, ONT., P.O. AND STATION

# HIRES T. L MERCER Markdale, Ontario

ing cows in calf, heifers from calves up and well fleshed. d ewe lambs by a Toronto 1st prize ram

**RM SHORTHORNS** 

rd header or to raise better steers is right now, al Scot, also several cows and heifers. Write u on, Ont. C.P.R. (11 miles east of Guelph)

S and 40 females. Shropshire and Cots-wold ewes for sale at prices within the reach of all.

Myrtle Sta., C.P.R. & G.T.R.

emales (milk strains) grand choice of bulk 175. Young cows and heifers from \$100 to sired by one of Ontario's best bulls (still at All good individuals. Write or come and sec. UENSALL, ONT. & SONS. HENSALL, ONT.

HIN BREEDING, HIGH IN QUALITY aerd of Scotch and Scotch-topped Shorthorm never stronger in number nor in quality that I have the most fashionable blood of the od strains. Visit the herd. Also some right P.R.;Brooklin,G.T.R.;Columbus,R.M.D.

Herd headed by the two great breeding bulls, Newton Ringleader (imp.) 73783, and Nonparell

oo, Ont. Phone and Telegraph Via Ay

the one three-year-old shire stallion, winner of on at Canadian National Exhibition, Toron-uelph, 1915. One imported three-year-old ional Exhibition, Toronto, and 1st prize at ny horse, foal, sire and dam, 1st prize at a Toronto winner. a Toronto winner. Electric Lines; Long-Distance Telephone

OTTNS -- Three choice young bulls, eight to twelve months old; also younger year-old heifers and younger ones. BIRRELL & SON, Claremont, Ont. R. Pickering, G. T. R.

8879 = our splendid stock bull for sale, also es from good cows. Two very pretty stock r prime with calves at their side. Write for

lanager, R. R. No. 2, Port Hope, Ont.

#### Gossip.

If you want milk you can get it from . Holstein cow, and if you want Holstein cows, see the advertisement in another column of the big, 40 - head sale, to be held at Simcoe, Ont., Feb. 16. Nothing but females will be offered. The Norfolk Holstein-Friesian Breeders' Club has had two sales, and people were well pleased. The stock this year is better than before, so buyers will be sure of good bargains. Write to Wallace H. Mason for catalogue as directed in the advertisement.

One afternoon in the trenches an Irish soldier discovered that one of his company was wearing a nice new pair of boots. "How did you manage to get hold of them ?" asked Pat enviously. "Well," said his friend, "I stole out of the trench last night, and found them on a German I killed." Pat became thoughtful, and that night disappeared. Early next morning he staggered back into the trenches carrying a pair of boots. Making for his friend, he whispered : "I had the hardest job of my life. Had to kill about fifty before I got a pair to fit me."



For Sale—15 bulls 8 to 14 months old, several of them prize-winners at Toronto and London, sired by the noted Imported bulls Right Sort and Raphael. Also for sale—20 heifers and cows of choice breeding and quality for show or foundation purposes. State your wants and we will send copy of pedigree and prices. Mail orders a specialty, satisfaction guaranteed. **MITCHELL BROS.** Burlington P.O., Ontario

Jos. McCrudden, Manager. Farm 1/2 mile from Burlington Jct.

MAPLE SHADE FARM SHORTHORNS The products of this herd have been in very strong demand. There's a reason. Can always supply a good young bull at a price which will make him well worth the money. Not many females for sale but can show a few which should interest you. Maple Shade Farm, Brooklin, Ont. Brooklin, G. T. R., C. N. R. Myrtle, C. P. R. W. A. DRYDEN.

The Salem Shorthorns One of the largest collections of Scotch Shorthorns in America. Can suit you in either sex, at prices you can afford J. A. WATT, ELORA, ONT.

SHORTHORNS AND CLYDESDALES 10 Bulls serviceable age, all good ones (some herd headers) and are offering females of all ages. Have a choice lot of heifers bred to Clansman = 87809 =; also four choice fillies all from imported stock A. B. & T. W. DOUGLAS Long-Distance Phone STRATHROY, ONTARIO

> GLENGOW SHORTHORNS AND COTSWOLDS Pure Scotch in breeding, we have an exceptionally choice lot of bulls for this season's trade, ranging in age from 8 to 15 months; bfg mellow fellows and bred in the purple. Also Ram and Ewe lambs of first quality.

> Wm.Smith & Son, Columbus, Ont. Myrtle C.P.R., Brooklin, G.T.R., Oshawa, C.N.R.

SHORTHORNS YORKSHIRES SHROPSHIRES We have a choice selection in young shorthorn bulls. Young Yorkshires of both sexes, shearling ewes ram and ewe lambs. We aim to please by shipping quality. Write us your wants.

RICHARDSON BROS.

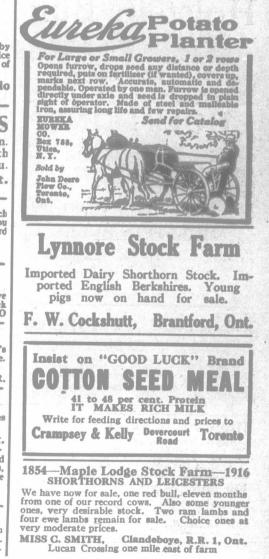
Columbus, Ont.

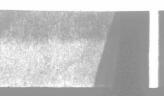
Woodholme Shorthorns For Sale—Four bulls sired by imp. Lord Gordon, fit to head good herds, and a number of cheap bulls for graded herds, from good milking families. Also a few good heifers in nice condition that I can sell worth the money. Mail orders filled with greatest care. Write your wants.

G. M. FORSYTH, Claremont, Ontario

#### SHORTHORNS AND SHIRES

For Sale—a few choice young bulls, cows and heifers, of high-class quality, choice breeding and from splendid milking dams. Also two young stallions and a few mares and fillies. Prices reasonable. JOHN GARDHOUSE & SONS, Weston, Ont. C.P.R., G.T.R. & Electric Railway L-D Phone.







nment Sale of

o'clock

ruary 16th on "Lyn River Stock Farm."

mbers of the Norfolk Holsteinres in the club for sale will be

per

# Ont. R.R. No. 4. ctioneer

HOLST ng Pontiac Korndyke Plus, 2 years Ibs. butter, champion 3-year-old Beets Posch, the sire of May Echo , and the only bull in Canada with bull at Guelph, by the same sire, pedigree. Also a few richly-bred

Lynden, Ont. rndyke, a grandson of Pontiac Korndyke, 38.02 lbs. butter ld's record when made. Caledonia, Ontario s dam gave 116 lbs. milk in one day of milk a day than any bulls and heifers There are more cows HAMILTON, ONTARIO

ed in the dams of the young bulls tter in 7 days. Also females of

M. H. HALEY

s over, we have 175 head of Holsteins, 50 ing, 25 heifers due to calve in the fall and g bulls, and anything you may select is

St. George, Ont.

ing a herd, or wanting to improve one, ung sires for sale, from Homestead Susie at three years 26.02; Ourvilla Calamity at three years 23.51, and a few others.

**FEBRUARY 10, 1916** 

**Ouestions and Answers.** Miscellaneous.

Killing Lice.

Would you kindly let me know, through the columns of your valuable paper, in what proportion you mix coal oil and soft soap to kill lice on cattle?

J. N. P. Ans .- We have never used this mixture. Why not try the cement and hellebore mixture recommended by Institute speakers and thousands of farmers who have tried it. Mix one part hellebore  $t_o$  four parts dry cement and dust down the cattles' backs. Give a second application in a week or ten days. Proprietary remedies advertised in these columns will also be found successful.

Probably Contagious Abortion. Will you please tell me, through your paper, what treatment to give a cow we think has contagious abortion? Will she do to breed again next summer ? D. F.

Ans .-- If the cow is a valuable animal, certainly she should be bred again. Disinfect her exterior genital organs, and separate her from other cows in the herd. Disinfect the stables. Flush out her genital organs with a mild disinfectant solution. Take precautions to disinfect the sheath of the bull before and after service. She may abort again. but it is quite possible that she may go on breeding regularly in the future.

#### Infant and Tutor.

Some years ago A died, leaving one child. An inventory of the movables was taken, and B, the father, appointed tutor, and D sub-tutor, and registered. B owned farm when married. A few years after, B rented farm and moved to another Province. Lately, B has mortgaged farm nearly to its full value. The child is now of age, but a helpless invalid. The father has contributed nothing to its support for the last twenty years.

1. Will mortgages come in before the child's claim ?

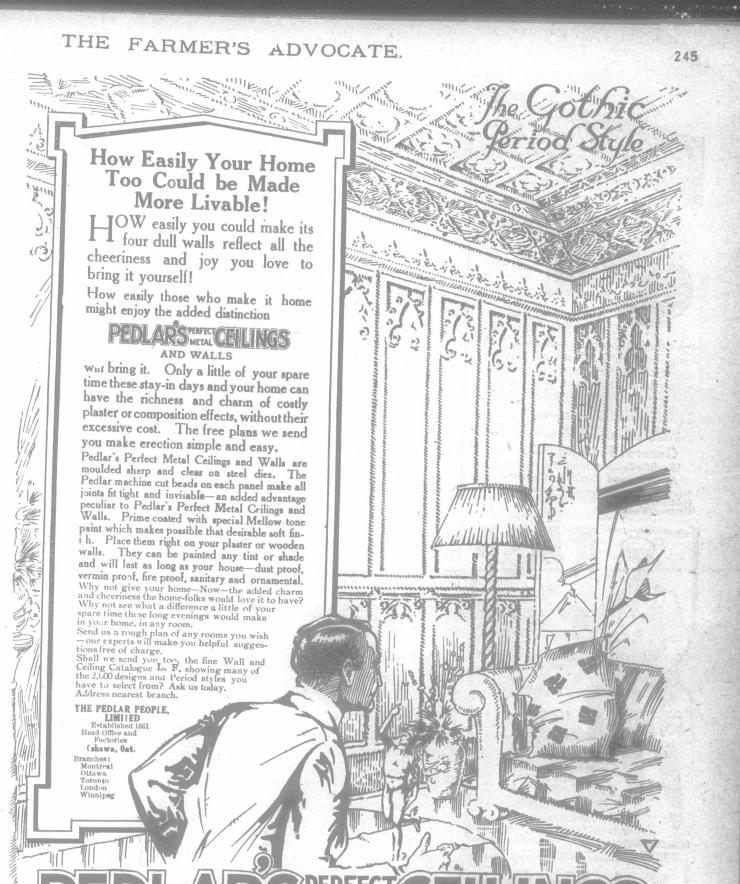
2. Should there have been security taken on the farm for child's share? 3. Should it have been registered against the farm ?

4. What is the duty of sub-tutor? Quebec. SUBSCRIBER. Ans.--1. We do not see that the child

has any legal claim upon the farm. 2. No.

3. No.

We presume that A was B's wife



#### W BROS., Aylmer, Ont.

rs and heifer calves. 66 HEAD MUST isposed of my two stock farms. Come tion. Price and terms to suit. Cattle irposes.

SOUTHEND P.O., ONT. utes trolley from Niagara Falls.

y just now are some choice young bulls d dams and sired by Count Mercedes d and a 21.06 lb. 3-year-old daughters, iemales.

Stratford or Sebringville, Stations.

TERED HOLSTEINS also a few yearling heifers bred

lulet, Norwich, Ont.

nte, Ont. BREEDERS OF HIGH TING HOLSTEIN-FRIESIAN CAT-OFFER FOR SALE A FOUNDATION ple and backed by officially tested dama.

VSON, Manager Ont. For Sale – Holstein Bulls, varying in age from 1 to 11 ams and the grand bulls Sir Korndyke Duchland Le Strange, a grandson of SUPERINTENDENT.

#### OLSTEINS

onths of age, the records of whose dams, 32 lbs. They are sons of King Lyons

On T. & Y. Railroad Line



The home of Sir Sadie Korndyke Segis, sire King Segis DeKol Korn-dyke, who is the sire of the 4-yr-old e have some of his bull calves for sale digree or come to see them. **Cobourg, Ont.** 

ow qualified in Record of Performance average of 4.5 per cent. fat. Do you young bull from one of them? All

R. 1, St. Thomas, Ont.

and that she died intestate as to her share of the movables. The child, accordingly, became entitled, upon her death, to two-thirds of such share. As to the sub-tutor's duty in respect of this property in particular, and the duties generally of a sub-tutor, you should consult, personally, a lawyer of your locality.

Veterinary.

#### Air-Slaked Lime.

What is the action of air-slaked lime on pigs ten or twelve weeks old. After cleaning the pen I threw a little cn the cement floor. In a day or two they took diarrhoea, and two died.

R. E. O.

Ans.-Lime of this nature in small doses is astringent. In very large doses it might cause diarrhoea by setting up an irritation. It is not practicable that under the circumstances mentioned the pigs ate enough to do any harm. There was some other cause for diarrhoea. V.

#### Urinary Trouble.

Horse passes bloody urine, or practically pure blood, three or four times daily. He passes about half cupful of blood at a time. ...H. E. G.

Ans.-The symptoms indicate the presence of one or more rough - surfaced calculi (stones) in the bladder. It will be wise to have him examined by a veterinarian to make a definite diagnosis, as he may discover some other cause for the trouble. If there be calculi, practically nothing can be done, as drugs have little action, and an operation is Very expensive, and the results not likely to be satisfactory. V.



#### **DON JERSEYS**

Special Offering—A few choice yearling bulls fit for service, also heifer calves six months old, sired by Eminent Royal Fern. Write for what you want. D. Duncan & Son, Todmorden, R. R. No. 1, Duncan Sta., C.N.O.

Brampton Jerseys We are busy. Sales were never more abundant. Our cows on yearly test never did better. We have some bulls for sale from Record of Performance cows These bulls are fit for any show-ring. for any show-ring. BRAMPTON, ONTARIO B. H. BULL & SON,

THE WOODVIEW FARM JERSEYS LONDON, ONTARIO John Pringle, Proprietor

**H. ARKELL** W. J. ARKELL F. S. ARKELL Summer Hill Stock Farm Largest and oldest importers and breeders of

in Canada. Look up our show record, it will give you an idea of the kind of Oxfords we have for sale.

PETER ARKELL & SONS, Proprietors, Teeswater, Ont. Customers, beware of imitations of this advertisement.

Shropshires and Cotswolds For Sale-Yearling rams and yearling ewes, a few imported 3 shear ewes, an extra good lot of ram lambs from imported ewes. Prices very reasonable. JOHN MILLER, Claremont ,Ont. miles Greenburn, C. N. R., 4 miles.

Claremont, C. P. R., 3 miles Pickering, G.T.R., 7 miles

#### Gossir. ANNUAL SALE OF SHORTHORNS AT GUELPH.

At the annual sale of Shorthorns to take place in the Winter Fair Buildings at Guelph, on March 1, many extra good inimals will be sold. In the offering are several high-class show bulls of excellent breeding, fit to head any herd. Included in the lot are nine young bulls. from the herd of W. C. Edwards & Co., . Rockland, and many smaller consignments from other prominent breeders. Further particulars will appear in next week's issue. For catalogues, apply to Secretary, J. M. Duff, Guelph.

THE "FAIRVIEW" DISPERSION. Do not forget the great sale of bloodd stock to be held at "Fairview," Woodville, Ont., February 18. Clydesdales, Shorthorns and Shropshires, among the best in America, will go at the buyer'a own prices. The stock is being dispersed to wind up the estate of the late D. J. Campbell. Stockmen all over Canada and the United States know the standard of the great winning herds and flocks owned by the Campbells at Fairview. Real world - beaters will be offered. It is the opportunity of a lifetime. See the advertisement. Get a catalogue. Attend the sale at Woodville, 65 miles north of Toronto, on the Midland Division G. T. R. You will be met at the station on Feb. 18.



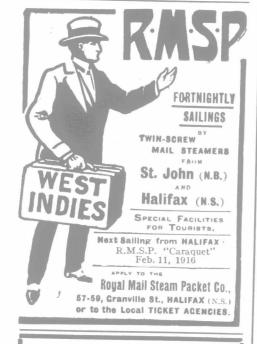


roofing felts, saturated with properly blended asphalts, and coated with a blend of harder asphalts. This keeps the soft saturation within from drying out, and makes a roof pliable, yet durable and impervious to the elements.

Guaranteed for 5, 10 and 15 years, according to ply (1, 2 or 8). Lasts longer. Sold by good dealers all over Canada, at reasonable prices.

General Roofing Mfg. Co. World's largest manufacturers of Roofing and Building Papers.

Distributing centers: Toronto, Montreal, Halifax, St. John's, N. F., Winnipeg, Regina, Calgary, Vancouver.



**Yorkshire Pigs** 

#### THE FARMER'S ADVOCATE.

#### Questions and Answers. Miscellaneous.

Breeding Coons.

I intend going into coon raising, and would like to know when they mate? A. N. McV.

Ans .- It has been found somewhat difficult to breed coons in captivity. They mate in February, and give birth to young in fifty-two days.

#### Kerosene or Gas Engine.

1. Would a kerosene engine, or an engine using kerosene, be any more complicated or troublesome than an ordinary gasoline engine ?

2. Which would be the better for winter use? I understand the kerosene mixer uses a little water.

3.  $D_0es$  it require any greater quantity of kerosene than gasoline on the same load ? E. P. H.

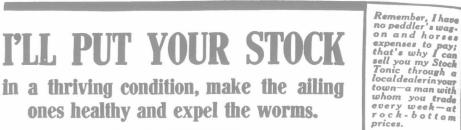
Ans.-1 and 2. Kerosene engines are generally a little more complicated than those using gasoline, because provisions have to be made: First, for starting the engine on gasoline, and then changing to kerosene after the engine has become warmed up. It will not start on kerosene. Secondly, for drawing warm air through the carbureter to vaporize the kerosene. It requires considerably higher temperature to make kerosene evaporate thoroughly than it does for gasoline. Thirdly, a good many men are using kerosene satisfactorily in engines adapted for it, and where the engines are run constantly, day after day and week after week, a considerable saving is effected in the price of fuel. For general farm use, where the engine would not be run more than half an hour to an hour per day on the average, it would probably not be wise to bother with kerosene. For winter use, there is about the same difference between them as in summer.

3. There is more heat in a gallon of kerosene than in the same quantity of gasoline, and if everything is working properly, it will not require quite as many gallons of kerosene as of gasoline. In the larger-sized engines, provision has to be made for admitting a little water into the mixture. W. H. D.

Quicksand in a Well-Pasture Mixture for Wet Land-Cement for a Wall.

1. I have a well, 46 feet in depth, dug in sand, with a four - foot square curb. I am bothered with quicksand in lottom. Is there any way to keep it from coming in ?

2. What is the best grass or clover to sow on wet-muck land for Fasture? Would white clover grow on it? How many barrels of



# Why Pay the Peddler Twice My Price?

I urge every farmer to see to it right now that his work horses are put in condition for the hard work of spring and summer, so that when the sun shines your horses will be rid of their old coat, full of stamina and ready for business. And don't overlook the spring pig crop—the mortgage lifters. Start them off free from disease—free from worms. Be sure, also, that your milk cows are however business and that these with calf are the sure that the sure of the Inters. Start them off free from disease—free from worms. Be sure, also, that your milk cows are thoroughly conditioned for the long, heavy milking season, and that those with calf are vigorous and fit. Remember, your stock have been cooped up for the last few months and have been on dry feed. As corn or oats, hay and fodder do not contain the laxatives and tonics so abundanty supplied in grass, your stock are pretty apt to be out of fix. Some of your animals are liable to be constipated, rough in hair, their legs may have become stocked, or they have dropsical swellings, but the most common disease of all, especially among hogs, is worms—worms.

worms-worms

# **DR. HESS STOCK TONIC** 25-lb. Pail, \$2.25. 100-lb. Sack, \$7.00 (duty paid)

Highly Concentrated, as the Small Dose Quantity Proves

Now, as a worm expeller, I will go the limit in guaran-teeing my Stock Tonic. To clean out your hogs, put in the swill one tablespoonful of my Tonic to every two hogs twice a day and you'll make short work of the worms. Dr. Hess Stock Tonic is

A Sure Worm Expeller — A SPLENDID TONIC This preparation of mine is 24 years old, farmers every-where have tested it. I feed it to my own stock, for I know that it contains the necessary ingredients for en-riching the blood, improving the digestion and assimi-lation, keeping the entire animal system clean and well regulated.

So sure am I that Dr. Hess Stock Tonic will put your animals in a thriving condition, make the ailing ones healthy and expel the worms, that I have authorized my dealer in your town to supply you with enough for your stock, and II it does not do as I claim, return the empty packages and my dealer will refund your money

And here are my prices — just half what the peddler charges: 25-1b. path, \$2.35; 100-1b. sack, \$7.00 (duty paid). Smaller packages in proportion. Sold only by dependable dealers who are known for square dealing.

#### Dr. Hess Poultry Pan-a-ce-a

**Dr. Hess Fourty ran-a-cc-a** This is just the time you should be giving your poultry this splendid tonic. It will put them in fine condition, make your hens lay, ensure tertile hatching eggs and strong, vigorous chicks. Very economical-a penny's worth is enough for 30 fowl per day. Sold only by reli-able dealers-1½ lbs. 35c; 5 lbs. 85c; 12 lbs. \$1.75; 25-lb. pail, \$3.50 (duty paid). Guaranteed.

**Dr. Hess Instant Louse Killer** ills lice on poultry and all farm stock. Dust the hens nd chicks with it, sprinkle it on the roosts, or, if kept the dust bath, the hens will distribute it. Also destroys worms, etc. Comes in handy, sifting-top 35c; 3 lbs. 85c (duty paid). I guarantee it.

I have a book about Dr. Hess Stock Tonic that you may have for the asking. DR. HESS & CLARK, Ashland, Ohio



If you have a sick of injured animal, write me at once, giving symptoms, and I will send you prescription and letter of advice

on and horses expenses to pay; that's why I can sell you my Stock Tonic through a localdelerin your town—a man with whom you trade every week—at rock-bottom prices.

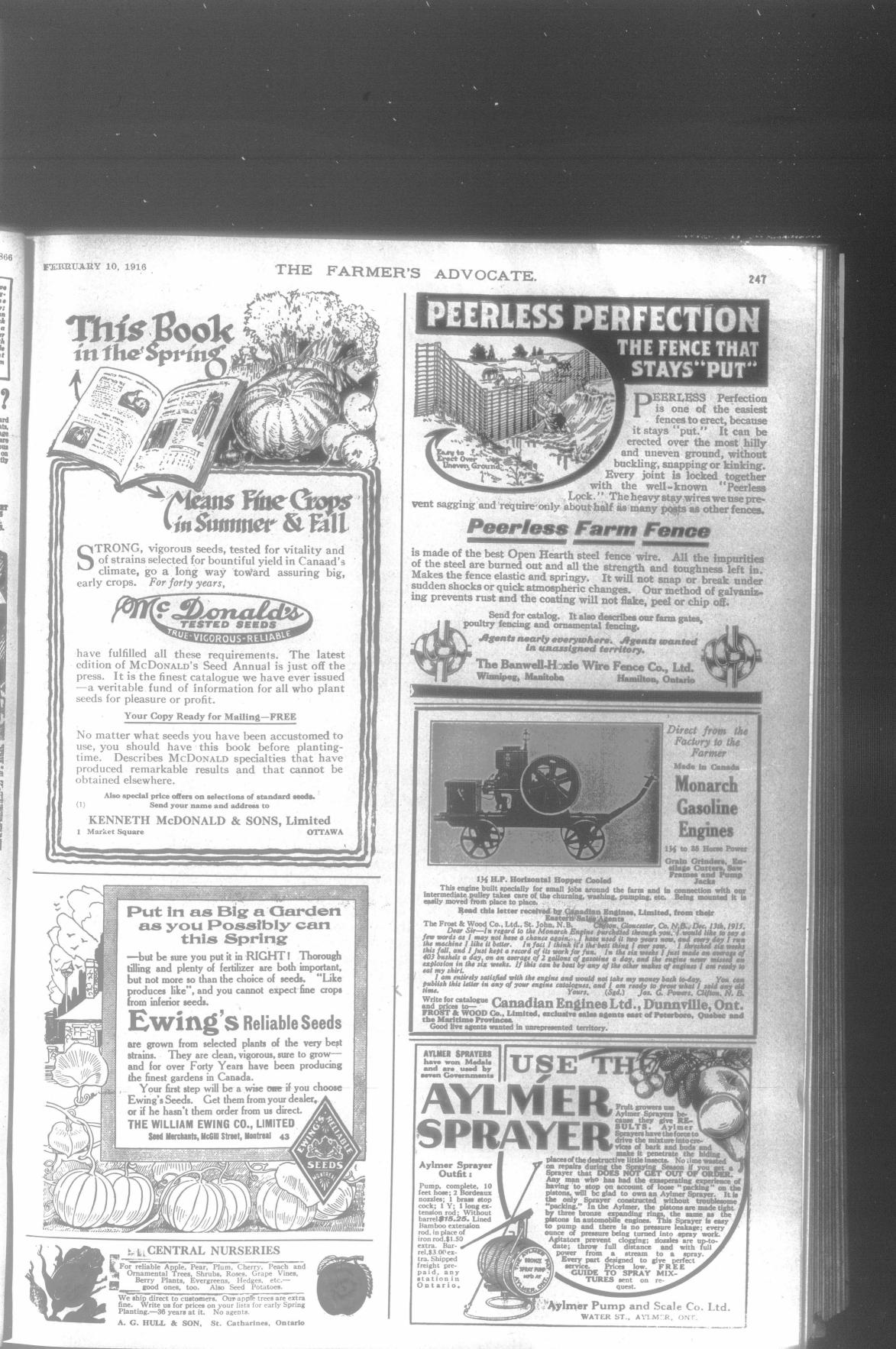
CILBERT

HESS M.D. D.V.S.

FOUNDED 1866

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THE FARMER'S ADVOCATE. FEBRUARY 10, 1916 One Hundred Weak Spots to the Rod

In the Average Woven Wire Fence

# A HARD WIRE THAT IS SHARPLY KINKED LOSES **ABOUT 25% OF ITS STRENGTH**

Of the two cuts above, one is a lock of an ordinary woven fence, the other is a cut of a lateral wire, minus locks and stays, of the same kind of woven wire fence. Just look at the kinks that are put in the lateral wire to make the

248

stays hold. You do not notice these kinks when the stays and locks are attached; but they are there, sure enough, and how much they weaken the wires, you can well judge. YOU WOULD NEVER THINK OF BUY-ING PLAIN OR COILED

WIRE WITHSUCH KINKS **WOULD YOU?** 

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Why, then, consider a ready woven fence, with thousands of these weak spots? A hard wire that is sharply kinked loses about 25 per cent. of its strength.

# Frost Fence First

The improved binding used see, lies absolutely straight: In a rod of most every other reason why, is the fact that we DO use hard wire, harder than could be used in those fences where the lateral has to be kinked. Shown in the cut below is a lateral wire and lock taken from a Frost Fence. The lateral wire, as you can

only in Frost Fences gives no strength is lost at all. You make there are 100 bindings greater security without the can always depend on each or locks which mean 100 necessity of a kink to hold wire in the fence holding just kinks in the laterals: 100 stay in position. One big as much as it ever did, and in Frost Fence this means about 2,000 lbs.---one ton.

WEAK SPOTS we say. Is

You can see now why "FROST FENCE" is better.



there any doubt of it? Why shouldn't such fences be sold cheaper than "FROST FENCE" --- not only a few cents as they are, but about "half as much" as they ought to be when "quality and service" is to be considered?

THE LATERAL WIRE, AS YOU CAN SEE, LIES ABSOLUTELY STRAIGHT: NO STRENGTH LOST AT ALL

To be sure about the above, make your own examination. Examine any of these so near alike kinds of fence and then inspect the laterals in "FROST PENCE".

We own and operate our own whee Drawing and the surg Mills, so that

we're responsible for the quality of all we turn out. We've got to be, otherwise, we could not keep the reputation we now have of being the biggest fence manufacturers in Canada.

Full size wire, Hard and

well Galvanized, and carefully

woven into finished fence makes "FROST FENCE" the fence you want.

Complete fencing supplies, all kinds of wire, and plain and ornamental gates.

Lawn Fences----Wire and Iron.

Get a catalogue.

FROST WIRE FENCE COMPANY, Limited, HAMILTON, CANADA