



No. 2

Orchard and Garden Magazine Number = OUT MARCH 2nd

This issue will meet the keen desire for the latest information on fruit growing.

"OUR FOLKS" know that the old neglected orchard may be made the most profitable acre on the farm. This issue tells how

ADVERTISERS will do well to have their strongest copy reach our 22,000 readers in this issue. Send along early and secure our best positions. First forms Feb. 25. Last forms close Monday, 28th, 10 a.m.

RESERVE YOUR SPACE TO-DAY

Advertising Department

Peterboro, Ont. Farm and Dairy

I Public Issues as Viewed by Ontario Farmers

February 10, 1916

A Commission Desired to Investigate Conditions Governing Rura Enlistment-Abolition of the Liquor Traffic Advocated --- Free Trade with England Supported --- Other Issues Dealt with

Trade with England Supported—Other Issues Dealt with. The approximately 300 farmers representing local farmers' clubs and who met in Toronto last week at the annual convention of the United farmers of Ontario, toxic advantage of the occasion to make their yiews invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized invited to submit them in the future of the optimized interview of the optimized the optimized to the optimized interview of the optimized the optimized to the optimized interview of the optimized the optimized to the optimized interview of the optimized the optimized to the optimized interview of the optimized the optimized to the optimized interview of the optimized the optimized the optimized to the optimized the optimized the optimized the optimized the optimized interview of the optimized the optimized the optimized the optimized interview of the optimized the optimized the optimized the optimized interview of the optimized the optimized the optimized the optimized interview optimized the optimized the optimized the optimized the optimized interview optimized the optimized the optimized the optimized interview optimized the optimized the optimized the optimized interview optimized th

Rural Recruiting.

The following resolutions were adopted: Rural Recruiting. 1. "We desire to emphasize in the most forcible way possible the serious consequences which will result from any large enlistment of men-from the farms for overseas service. Agriculture is already sadly under-manned, and any further decrease in the number of those engaged in it cannot but reduce farm production very materially. As an increase of farm production is most necessary, not only for the assistance of the Empire. but for the maintenance of our own national credit, the imperative need for a large enlistment from the rural sections should be demonstrated be-yond any question before such enlistment is encouraged. The campaign is resulting in either taking men from the farms who are more needed there than in the trenches, or as branding as disloyal or cowradly many young men who are neither, but are kept on the farms through a sense of duty more urgent than that of enlisting. We would urge, to remedy these con-ditions, that local commissions of responsible citizens, on which agricul-ture is to be represented, be appointed to investigate the cases of farm youths enlisting, and to determine whether they are more needed on the farms or under arms; and that provision be made by which men not en-jisting, and left at home under these conditions, shall receive some badge by which reproach shall be removed from them." (Carried). **Prohlbition Advocated**.

Prohibition Advocated.

Prohibition Advacated. Prohibition Advacated. 1. That, whereas, our country being at war, it has been declared upon the authority of the Hon. Lloyd George, Briths Minister of Munitions, that an even greater enemy to the welfare of the nation than the armies that have taken the field against us, is the licensed liquor traffic, that is sapping the streng, h of the mahnood and womanhood of our country as well as our financial resources: Ad, whereas, two of the Alles of Great Britain in this hour of their country's peril, have arisen to the occasion, and in their pathotism practi-cally abolished the liquor traffic in their respective countries. Be it resolved that we, the United Farmers of Ontario, would urge our National Government to enact at the present session of pathament, such legislation as will psevent, at the earliest possible date, the sale, import-tion and manufacture of spiritous liquors in Canada during the period of the war, and that the traffic be not re-established for at least three years there and that the traffic be not re-established for at least three years there and that the traffic be not re-established for at least three years there are also ability ardiffer reform we would express on thearty approval also of the proposal that the Ontario Government shall at its next session pro-bilt the sale of spiritous liquors in the province for the same term and upon the same conditions. Carried). **Death of Mr. Hyatt**.

hibit the sale of spirituous liquors in the province for the same term and upon the same conditions. (Carried). Death of Mr. Hyatt. 3. That, whereas, we have sustained great loss in the death of our old friend, John W. Hyatt, therefore, be it resolved that we instruct our Secre-tary to send a letter of condolence to his family, and that we express our esteem of our late brother by a standing vote. (Carried). Direct Legislation Direct Legislation Minimum and referender, and recommend that all farmers' organizations make a serious study. The the transformer or organizations make a serious study. The transformer of the transformer or organizations make a serious study. The transformer of the transformer or organizations make a serious study. The transformer of the transformer or organizations make a serious study. The transformer of the transformer or organizations make a serious study. The transformer of the transformer or organizations of the war and the financing of her Allies and our own maintain her credit and financial strain upon Great Britain in connection with the carrying on of the war and the financing of her Allies and our own maintain her credit and financial strain unite Cannda with the Motherland shall be strengthered in all possible ways; Therefore, be it resolved, that our Federal Government should imme-diately remove all obstacles in the way of trade with Great Britain by re-ducting all duties against British imports. (Carried). Agricultural Cooperation. Agricultural Cooperation.

Agricultural Cooperation. 6. Resolved, that a committee to be known as "The Committee on Agricultural Cooperation," consisting of five members, be appointed by the president, which committee shall be charged with the duty (without com-pensation) of investigating the organization of Agricultural Cooperative Associations, with particular view to elucidating the methods and pri-ciples underlying the organization of Agricultural Cooperative Credit Asso-

(Continued on page 17.)



Trade In VOL.

Vhy A N the la

strong stable of 1 eral letters with the su signing hi barn in sca barn is n stock, that family in keep his d

Now I I neighbors to tear mi would. I and lightin as healthy I would lik ventilation, barns and of the nar

The barn no need o cracks one walls and warmly in: chopping w air in that them, were they are n stress on th Now that makers, we walls are doors are tight. In built that f we make p

Live stoc need hay a provision s all the fim shutting of on agricult this need o He found th to our live dairy cow every minu pails and a supply air f I have n

ventilating air was eve come to thi ably comfor conditions. the lungs o oxygen, and not as "nou



Trade increases the wealth and glory of a country ; but its real strength and stamina are to be looked for among the cultivators of the land,-Lord Chatham.

VOL. XXXV

rs ITA

nd 100, ted ws ing m-

the

but ion

iral

its en-

OFe

at e a em.

the

nen

der

ı it

arm

eed

be-

n is

nere

ung

on

arm

the

dge

nies

t is as

heir

acti

our

such

orta

d of

ears

also

and

r old

our

the

tions

with

own for

may

bend-

reas

shall

nme

y re-

e on y the

rative

prin-Asso-

pro

PETERBORO, ONT., FEBRUARY 10, 1916

No. 6

Why Ventilation is Necessary in Dairy Stables And a Few Suggestions on Installing a System .- By E. L. McCaskey

N the last couple of years there has been a strong and growing tendency to condemn the stable of the bank barn. There have been several letters published in Farm and Dairy dealing with the subject. Only a few weeks ago, a writer signing himself "Breeder" condemned the bank barn in scathing terms. He stated that the bank barn is not fit for implements, much less for stock, that no man would think of keeping his family in a basement, therefore he should not keep his dairy cows in one.

Now I have a bank barn. Practically all my neighbors have bank barns. I do not propose to tear mine down, and couldn't afford to if I would. I believe that with proper ventilation and lighting the gtables of our bank barns are as healthy as any. It is a seasonable topic, and I would like to say something on this subject of ventilation, dealing particularly with these bank barns and every other kind of barn deserving of the name

The barn in which I did chores as a boy had no need of a ventilating system. There were cracks one inch wide between the logs of the walls and one needed to dress just about as warmly inside doing chores as he did outside chopping wood. There was an over-plus of fresh air in that old stable, and chores, as I remember them, were not even as popular with the boys as they are now. However, we did not lay great stress on the cattle end of the farm in those days. Now that dairy cattle are our main moneymakers, we have better buildings, the cement walls are absolutely tight, the windows and doors are put in carefully and they, too, are tight. In fact, many of our stables are so well built that fresh air does not get in at all, unless we make provision for it

Amount of Air Needed

Live stock need fresh air just as much as they need hay and water, and in every good stable provision should be made for getting it to them all the fime, not by an occasional opening and shutting of a door. Professor King, whose works on agricultural science I value highly, has stated this need of fresh air in a very striking manner. He found that if it were necessary to supply air to our live stock as we do water for instance, a dairy cow would require six pails of fresh air every minute, a horse seven pails, a sheep 1.5 pails and a pig 2.3 pails. This amount would supply air fresh and pure with each respiration.

I have never yet been in a stable where the ventilating system was so good that none of the air was ever re-breathed, but the nearer we can come to this and keep the temperature reasonably comfortable, the nearer we are to proper conditions. Every time the air passes through the lungs of the animal, it loses one-fifth of its oxygen, and if such air must be re-breathed it .s not as "nourishing," and a constant re-breathing of such air lowers the vitality and health of the live stock. At the same time in exhaling, an animal expels Jarbon dioxide, which is a poisonous gas, and certain organic matters which are even more poisonous than the gas. In many of our tight, modern stables, without a modern ventilating system, the air is poisonous and filthy.

To Avoid Dampness in Stables

A point strongly emphasized by "Breeder" was the dampness of the bank stable, and his contention is too true. A good-sized cow will exhale in addition to carbon dioxide gas, 10% lbs. of water in the form of vapor each day. We must get rid of this excess moisture in the atmosphere. A ventilating system does it. The cold air outside of the stable in winter, has small water holding capacity and comparatively speaking it is dry. When this air is brought into the stable it warms up, and its water holding capacity is much greater, and it absorbs the moisture from the cow's breath. If this air is in turn drawn off by the ventilating flue, it carries the excess water with it. A stable that is perfectly ventilated will never show dampness on the walls.

UTOPIA

- By George Gilbertson In youth, as I lay dreaming. I saw a country fair, Where plenty sheds its blessings down, And all have equal share; There poverty's sad features Are never to be seen. And each soul in the brotherhood Scorns cunning arts or mean. There honesty is reckoned Something above a name, And men perform their kindly deeds
- For nobler meed than fame; There labor is respected. And reaps its due reward.
- And idlers in the brotherhood

Would meet with scant regard.

For long have I been seeking And still confess with pain

- I never yet have found the land I long to see again.
- Still, as my years run slowly. Mingling with life's great stream.
- I hope to find the brotherhood
 - I saw in that young dream.

This is the theory. There are a couple of practical points that prevent its properly working out in the majority of stable that I have been in. As soon as the air gets cold again, it loses its water holding capacity and must deposit the water vapor as water. Cement and stone walls in basement stables are practically as cold as the air outside, and when the air of the stable cools down against these walls, it deposits its moisture on them. The only way to get around it is to insulate the walls by putting up a partition an inch or two in from the wall with tar paper and matched siding. Again, in the ventilating flues which carry off the foul air, unless the flues are well made and insulated, the air will cool before it reaches the top and moisture will be constantly running back down the flues and into the stable.

Installing a Ventilating System

I have taken up so much space that I will have to describe the installation of my ventilating system very briefly. It is the King system, and has always given perfect satisfaction. On each side of the stable, the air is taken into flues at the ground mark outside and carried up to the ceiling, where there is an opening into the stable. No provision for these flues was made when the cement walls were erected, but when we put the insulating partition inside, all that was required was to break a hole through the cement at the bottom and the fresh air goes up between the studs to the top of the stable. On each end of the stable, we have flues running to the ridge of the barn. These are made of two-ply of lumber, with two-ply of tar paper between. There is an opening into the flues at the stable door and again at the ceiling. In cold weather the opening at the ceiling is closed and the cool, foul air is drawn off at the floor. This system works almost automatically and keeps the air fresh and the stable dry. Without such a system I would be as hard on the bank barn as "Breeder" or any other of the writers whose opinions I have read in Farm and Dairy. With our ventilating system I consider the stable of the bank barn most desirable from the standpoint of convenience and warmth

The farmer with only a few animals can hardly afford to keep pure-bred males. Yet he cannot afford to use scrubs. One solution of the problem is for several neighbors to club together and secure the pure-bred sires needed. This will really make the cost of the pure-bred sire less to each farmer than would be the cost of scrub sires if each owned one.

The latest discovery in the realm of agriculture is that the farm is not merely a great laboratory where by wonderful processes of combination and growth the food of the world is produced, but a home as well; and that any true agricultural science must look beyond the crops and live stock to the family on the farm, the men and women living there, the boys and girls growing up .- "La Follette's."

Our Experience Meeting: Handling Winter Manure

Our Folks in Five Provinces Give Their Methods and Experiences

A British Columbia Method W. E. Smith, Kootenay District, B.C. (First Premium)

Y method of handling winter manure is M based on practical experimental work. In our district we have a very heavy snowfall in the winter. A few years ago it was thought that to put manure out on the snow was to lose the best portion of its ingredients. It was then the practice to pile it up around the barn until spring. I found this method wasted more of the strength of the manure by burning or overheating than I thought was necessary. So I hauled it out on the snow in small piles, ready to spread in the spring. The result of the next crop was that where the piles had stood, an extra growth showed, while where the manure was spread in the spring, although a heavy spreading had been given, it did not show very well. I pondered over this, and came to the conclusion that the goodness of the manure had been washed into the ground by the snow. The manure that was spread had lost a great deal of its value, and what was left took a long time to get worked into the soil before giving results.

I then decided to try spreading all of it on the snow. As the snow is melting underneath all the time, the goodness running out of the manure finds its way into the ground gradually without any part being wasted. I now keep my sleigh handy to the barn, loading right out of the gutters. I am able to take out a load every day, spreading it evenly on the snow. It does not stay exposed very long, as we get a little flurry of snow every few days in the early part of the winter. Sometimes, after a severe storm. I cannot get far out until after a trail has been broken. I then spread close in to home, and break a road at my first opportunity, far out again. This method keeps all clean around the yard. the manure loses none of its goodness, and the work is done at a time when there is no other very pressing job on hand. The plow can be started in the spring without delay, the ground has already absorbed the nourishment, and the body of

the manure is turned under to rot and make humus to support the soil at a later date.

A Western Ontario Opinion

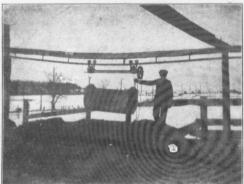
R. H. Harding, Middlesex Co., Ont.

HE care of farmyard manure during winter is a question that is worthy of more attention than the average farmer is giving it. If there were no other view point than keeping it in the best form, I am of the opinion that keeping it in under cover, packed solid to prevent leaching, and at the same time carefully mixing horse, cattle, sheep, and swine manures (which would prevent fire fanging), making the manure of uniform quality, should give best results. But the question of labor has such an important bearing on the subject that it is next to impossible 'to draw the manure from the yard during the summer; we must make the best use of our time that is possible. So, everything considered, I would prefer to draw direct from the yard or stable to the field and spread it right where it is wanted, up to such time as the snow reached a depth of nine or ten inches deep.

Where the fields are hilly and the leaching

manure would quickly run away and waste, I would prefer to pile at each end of the field about 18 good loads in each pile, piled high and compact, exposing as little surface as possible. In this way while there is the extra handling, the first handling is done when work is not crowding, and when in many cases the exercise would be beneficial to the horses. The manure is then very convenient to where it is wanted, and can be handled with the minimum amount of time and labor in the busy season, whether it is applied with the spreader or by the old method. Through having it piled on the field we can often apply it when it would be impossible to draw from the yard without cutting up the yard and

roadways by the operation. On most farms there is sufficient corn and roots grown to use up all the available manures, and while corn apparently does quite as well on land well manured, plowed, and well worked down just previous to planting, yet for roots I prefer to manure the land in the fall and plow in immediately, in which case I prefer to carry over a pile of the previous winter's manure, which should then be well rotted and the ger-



The Litter Carrier is of Great Assistance in Handling Winter Manure. --Photo on farm of Jno. Detjor, Hastings Co., Ont.

minating qualities of many of the weed seeds would be destroyed as well.

A Method from Easte a Ontario Arthur Christie, Dundas Co., Ont.

O N our fifty-acre farm we have tried different methods of handling manure, and find our present method not only entails the least amount of labor, but is the cheapeat and gives us the best results. Here is the plan:

Take two runners, hardwood preferred, and nail a platform to them. I make the platform perfectly smooth so it can be scraped with the side of the fork. Next I mortise a hole in front, behind the crosspiece, and attach a short piece of log chain for grab hook to hitch to. This boat is kept beside the stable door, and holds one day's manure. The manure is removed from the barn and dumped directly on to the boat and then hauled to the field and spread on the land every day of the week, excepting Sundays. We always put the horse manure and prevents fressing to the boat in cold weather if the manure has tor crimain on the boat over Sunday.

February 10, 1916

Now, here are some advantages of this method: There is little or no loss from fermentation, as the manure is applied directly to the land. A manure boat costs very little, while a waggon or sleigh will only last a short time if used for this purpose, as manure rots wood very quickly. Unlike a manure spreader, it can be used in winter when most needed. When the team goes to the field to work they take the manure with them. This plan might not be prastical where a large stock is kept, especially in spring, when the ground is bare and soft. Our practice has been to leave the pieces of land we intend manuring near the barn until spring. By drawing out manure during the winter the farm horses get exercise every day. The labor of handling it is more evenly distributed, and we always feel we are up with our work better if the manure pile is out of sight. It is also a great satisfaction when spring comes to have the manure out and spread on the land where it is needed, and to have a nice clean barnyard. I consider a clean barnyard is just as essential as a clean stable. especially if one is engaged in dairying.

We have been following this method for about six years, and one of the results of our system of farming was that our income from 80 acres of land for 1915 was over \$2,000. The following stock was her and fed all the year, with the exception of the ecows and one colt, which were

pastured out for five months: 16 cows, one bull, three heifers, three calves, four horses, average of six pigs, and 125 hens. The only feed purchased was \$300 worth of concentrates.

Advice from Quebec Clarence H. L. Hawley, Missisquoi Co., Que,

"HE way we have been and are handling our winter manure is to draw it direct from the stable, if at all possible, and spread it immediately on the land. In this way it is handled as few times as is possible, and we are sure that we get less waste with this method than with any one we have ever tried. We get the manure spread where we want it, which would not be the case if left till spring to be handled in any other way. We can cover⁶ a larger acreage than if it was left in piles to leach or rot away. And covering a larger acreage, we are able to go over all our cultivated

land oftener than we otherwise could. When the land is ready to work in the spring

when the and is ready to work in the spring we do not have to stop and spread manure, thereby saving valuable time and allowing one to get the crop in earlier, which is a big advantage in some cases, at least. In drawing the manure during the whiter, the team gets exercise regularby. We try to have the manuré from the different kinds of stock mixed together so that in spreading the results will be even.

Our farm is fairly level, seldom waters up to any amount, and a large portion of it is of a gravelly nature. We have other classes of soils, and they are handled as far as the spreading of manure is concerned in exactly the same way. We have been following this method for a number of years (much to some people's disgust), and are well pleased with the results; so much so that we have no other intentions than to stick to it.

Indoor Preservation in N.S.

Philip S. Ilsley, Kings Co., N.S. MOST of the older barns in the Maritime Provinces were built with the stables on the ground floor. The manure was thrown out (Concluded on page 21)

The N

Secon THE sec

onto reveal in (the run mers are sand of the tions, whice vincial or Ontario. ' when this ago was ee vention. I future, while extension c

The dele were impre ceedings. of the pro men were timism an throughout. them of th to work me work in th be done mo pervaded th the locals i Association four distric one between points in w next few me invited to s speakers po way they h who were u in Toronto. The proce

The proce Church Str The characi were about ed wardens members of to-do farme other men ability they intelligence lowed, reve: were well a

The speed that there w living in se a discussion which it wa farms of th enlist, but many distric an injury to came out ag of Winnipeg they warned almost certa paid for farm ed condition taxation may known befor certain to b making mill United State plies, to loa

The Farmers of Ontario Are Well United

The New Movement in Ontario Agriculture Has Made Rapid Progress-A New Spirit of Union and Uplift Evident-Some 5000 Farmers Now Organized.

Second Annual Convention Held Last Week in Toronto---Important Resolutions Passed---Plans Laid For The Future.

THE second annual convention of The United Farmers of Ontario held last week in Toronto revealed the fact that a new spirit is moving in the rural districts of Ontario. Ontario farmers are organizing rapidly. Some five thousand of them are now united in local organizations, which in turn are connected with the provincial organization, The United Farmers of Ontario. The enthusiasm which was manifested when this Association was organized two years ago was even more manifest at last week's convention. In consequence, plans were laid for the future, which should result in an even more rapid extension of the work than has taken place in the past.

d

it

11

.,

g

le

16

is

ed

e,

ay

et

an

d.

he

nd

ed

ng

re.

ret

in

ITe

ar

er

in

of

av

her

ric

the

out

The delegates who attended the convention were impressed with the character of the proceedings. Many had never attended a meeting of the provincial organization before. These men were hardly prepared for the spirit of optimism and enthusiasm which was manifest throughout. Announcements were heard from them of their intention to return home and set to work more earnestly than ever to extend the work in their districts. In order that this may be done more effectively and that the spirit which pervaded the convention may be carried back to the locals more effectively, the directors of the Association decided after the convention to hold four district conventions, one east of Kingston, one between Kingston and Toronto, and two at points in western Ontario some time during the next few months, to which the local clubs will be invited to send delegates, and at which the best speakers possible will deliver addresses. In this way they hope to reach thousands of farmers who were unable to attend last week's convention in Toronto.

The proceedings were held in the Parish Hall, Church Street, on Wednesday and Thursday. The character of the delegates, of whom there were about 300, was of the highest. They included wardens, ex-wardens, reeves, and numerous members of township councils, as well as wellto-do farmers, Farmers' Institute speakers, and other men experienced in public affairs. The ability they displayed in the discussions and the intelligence with which the proceedings were followed, revealed their calibre. All the sessions were well attended.

These Are Serious Times

The speeches and discussions revealed the fact that there was a general realization that we are living in serious times. This came out during a discussion on recruiting in rural districts, in which it was shown that the young men on the farms of the province are willing and ready to enlist, but that the point has been reached in many districts where further enlistment may work an injury to the country instead of a benefit. It came out again in the speeches of T. A. Crerar, of Winnipeg, and W. L. Smith, of Orono, when they warned farmers that after the war there is almost certain to be a great slump in the prices paid for farm produce, owing to the impoverished condition many nations will be in, and that taxation may be expected to be higher than ever known before. In addition, a great effort is certain to be made by the numerous firms now making millions of dollars in Canada and the United States from the manufacture of war supplies, to load both countries with an immense

army and navy in order that their profits may not be interfered with. The thought was brought out repeatedly that unless the farmers of On-



R. H. HALBERT President of the United Farmers of Ontario.

tario and of Canada are thoroughly organized and prepared to resist these conditions they, as well as the country at large, will suffer in consequence. Again and again it was emphasized that the success of the movement is going to depend on the clearness with which the individual members of the organization realize their responsibility and do their part to extend the movement. Even the most capable leaders, it was said, will be powerless to accomplish anything worth while unless the individual farmers on the back concessions and side lines support them loyally in the work that has been undertaken.

That the movement has already made a deep impression on the country was brought out when speakers warned the delegates that should this movement to organize the farmers of Ontario fail, it will be impossible to revive such a movement for many years to come. At the same time, it was shown that even greater difficulties may have to be overcome in the future than in the past. The interests which oppose the organization of farmers at first looked on the movement with indifference. They are now beginning to take steps to break it up. Secretaries of local clubs gave instance after instance where large manufacturing firms which a year or more ago refused absolutely to sell goods to any local farmers' organization, have now commenced to offer the local clubs lower prices on these goods than the central organization in Toronto can obtain. In this way it would seem that they desire to prevent the central company from doing business and thus to disorganize the whole movement when later they will be able to advance prices to former levels. Secretaries reported that they were offered inducments by the agents of these concerns to send the orders of their clubs direct to them, and thus cut out the central company. That these efforts of opposition interests are bearing some fruit was shown when it was stated that difficulty is sometimes experienced by the locals in keeping their members loyal to the

central under these circumstances. It is a great game the business interests are playing, in the case of some firms at least, and unless the farmers become wise to it, the movement is likely to be considerably retarded. That the delegates present were in earnest in their determination to push the movement was shown when 53 of them subscribed for stock in the Central Company.

Resolutions Adopted

A number of important resolutions were adopted. These are published on page 2 of this issue. The proceedings throughout were conducted with despatch. This was due in a large measure to the fact that President R. H. Halbert, of Melancthon, proved himself a capable presiding officer. The delegates showed their appreciation by re-electing him president for another term. That some of the speakers were not accustomed to addressing such large audiences was shown by their nervousness when they attempted to speak. Those in the audience were able to sympathize with them, and on different occasions words of sympathy were called out to them. These little incidents tended to draw the delegates closer to one another.

Convention Features

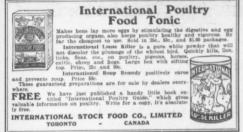
Features of the convention included a particularly able address by Mr. T. A. Crerar, of the Grain Growers' Grain Co., of Winnipeg, which showed that the farmers of the west have had to overcome the same class of difficulties as now confront the farmers of Ontario. Another speaker from the west was Mr. W. H. English, of Harding, Manitoba, a director of the Manitoba Grain Growers' Association, who told how the western farmers had met and overcome obstacles, and explained why it is imperative that farmers should organize at this time if they are to escape the exactions of the better organized business interests. The discussions this year were largely business in character. They dealt largely with such topics as the financing of local organizations, methods of extending the organization, live stock shipments, and similar topics. It was felt by some that not enough time was left for the consideration of matters more general in character.

Much interest was taken in a new method of electing the directors which was adopted, on the motion of Mr. W. C. Good, of Paris. Ballots were distributed among those present, which enabled every delegate to nominate whoever they might choose for president, for 1st vice-president, for 2nd vice-president, for auditor, and which gave them a right to nominate a first and second choice for directors. Later, these nominating ballots were sorted out and the names of the parties who had the largest number of ballots were placed on the black board and were voted on. The system did not prove perfect, and can probably be improved another year, but it saved many of the tedious nomination speeches that usually take up so much time of the conventions, it prevents the necessity of a nominating committee, whose decisions so often cause dissatisfaction, and in other ways showed that it had commendable features. It was an experiment in the widely discussed use of the "preferential ballot," which may in time be attended by important results.

The President's Address

Pres. R. H. Halbert, in his presidential address, (Continued on page 17.)







Farmers' Letter File Saves Time and Money

Ninety - nine farmers out of every hundred lose money at some time because they have not kept copies of their business letters or have lost the receipts for bills they -have paid. When you ship grain, produce or livestock or order supplies of any kind by letter, it is important that you keep an

SHAW MANUFACTURING CO., Dept 158 GALESBURG, KANS., U.S.A.



H. FRALEIGH, Box. 3, FOREST, ONT.

EXACT copy of the letter you write. Without these EXACT EAALSI copy or the letter you write. Without these EAACT copies you will often be put to inconvenience and frequently lose money. Every secretary of a Farmers' Association, School Board or business or-ganization should have a FARMERS' LETTER FILE and keep his correspondence in proper shape. It will save several times its cost to every

correspondence in proper shape. It will save several times its cost to every farmer year?. The FARMERS' LETTER FILE shown in the accompanying illus-tration contains pockets for all the letters of the alphabet. Letters you receive and copies of letters you send, as well as your receipts, can thus be field alphabetically and be found in an Jwill accommodate letters of any This fiel is 112 hm by 11 inches. When closed the file is 14 inches thick ad opens like an accordion so that it will hold ...oo letters. It is made of tough, heavy manilla paper and pasteboard, reinforced with linen. With ordinary care it will last twenty years.

ordinary care it will last twenty years. Ordinary letter paper such as can be purch venient size and style being pads 8 by 10 inches. chased anywhere may be used, the most c

The FARMERS' LETTER FILE together with Six Sheets of Carbon Paper for taking copies of letters, will be mailed to any address for ONE NEW SUBSCHEER to Farm and Dairy at the regular rate of \$1.00 a year.



Avrshire Breeders Are Prospering During the Past Year Business was Good. For the Future Prospects

are Bright. Therefore Fanciers of the Scotch Dairy Cow are Happy.

are Bright. Therefore Fanciers of THE Canadian Arshine Bredgers' year's business to a close at the anual meeting-held in Toronto on February 2 and 4. During 1915, 173 transfers were enrolled and an increase of 186 pedigrees and 43 transfers were registered over 1914. The healthy state of the Associa-tion's finances was indicated by a cash balaor Shi 23 for the pera siter paying a liability of \$157.468 and meeting an expense of \$275.000 ume 350.168 and the investing of sur-plus finds where they would bring a higher rate of interest the ac-rearied into the 1916 account total only \$501.66 and the investing of sur-plus finds where they would bring a higher rate of interest the ac-rearied into the 1916 account total on \$501.66 and the investing of sur-plus finds where they would bring a higher rate of interest the ac-reary setting showed that steady pro-tress was builting on by the inforcement from many parts of the breed sur-from many parts of the being that present was buched upon by inter-from many parts of the being that present was buched upon by inter-from many parts of the binder and the conserves bright in being that present was buched upon by inter-from many parts of the binder and the breed was buched upon by inter-from many parts of the binder and the breed was buched upon by inter-tions and parts of the binder and the binder and bind in the binder and the onserves bright in binder and the binder and binder and the binde

presidential address Mr. Trimble re-rounted some of the difficulties and hardships which they had to endure in the early days and told of the way in which his cows, at that time mostly Ayrshire grades, had been almost his sole source of incomed Fourteen years ago he had invested in his first pure bred herdwas. Since ing of a bul and there several car that time he has taken several car loads of pure breds into the province.

Secretary's Report

Decretary's report In presenting his annual report Secretary W. F. Stephen said that the year 1918 would be looked upon as the year in which Ayrahires pass-ed the 38,000 pound mark, in milk production. During the year a Cana-tice kered out I and Amour - 1860 ed the 25,000 pound mark, in mile production. During the year a Cana-dian bred cow, lean Armour -- 18601 --"28487" bred by John McKee, Norwich, Ont, had changed hands in the United States for \$4,000. If the United States for \$4,000. If an Ayrshitik and cream of high executive the large cities, and this was decidedly in the favor of the Ayrshires because of the uniformly high quality of her milk and the economical manner in which she couraging signs of the times is the number of young men who are tak-ing up the breeding of Ayrshires with enthusiasm and energy. The membership of the Associa-tion on December 81st was 1970 dis-tributed according to provinces as

tributed according to provinces as

follows: Ouebec 535; Ontario 560; Alberta 57; Nova Scotia 51; New Brunswick 88; Manitoha 85; Saakatchewan 97; Prince Edward Island 29; British Columbia 22; and United States 10. During the year 8963 pedigrees, 1407 transferes and 66 duplicates and new certificates had been issued. Ontario led in increase but there had been a slight falling off in registrations in the western provinces. Now that conditions had improved in the West and dairying was making, such rapid conditions had improved in the West and dairying was making such rapid strides the Ayrahire cow had a great future before her in the prairie pro-vinces. Breeders were warned how-ever, to send only animals of good type and high producing qualities to othe West.

The entries of Ayrshires in R. O.

are Bright. Therefore Fanciers of the Scotch Dairy Cow are Happy. THE Canadian Aryshire Breders' P. tests had shown an increase and Association brought a successful the records made were good. At the records made were good. At Calgary and Braudo A-yrires won February 2 and 4. During 1916, 179 new members were enroled and an mance 192 cover all breeck. In atrice had been nerasfers were registered over 1014. The healthy state of the Associ-tion's finances was indices. Cash balance on hand of \$4,280.88, an paysing a liability soft of \$475 on yol-meeting an 'sheer hook challities in cash balance of \$875 on yol-meeting an 'sheer hook challities the Association for the cow or heifered by the Association for the cow or heifered by paysing a liability soft of \$875 on yol-the Association for the cow or heifered by the Association for the cow or heifered by paysing a liability soft of \$875 on yol-the Association for the cow or heifered by the base hook challities the association for the cow or heifered by the base hook challities by t making the highest score in each class were awarded as follows: Mamaking the highest score in each class were awarded as follows: Ma-ture Class; Daisy of Ferndale — 98738--with 14062 lbs. of milk, and 844 lbs. of fat, score, 13,112 points; owned by W. C. Tully, Athelstan, Que. Four-year-old class; Queen Mary-48826-with 11309 lbs. of milk, and 44 lbs. Tef fat. McPherson, Ork-eage Ont. Three-year-old class; Milk-maid of Orkney, mentioned above. Two-year-old class; Primrose of Beaver Meadow-488900-with 13,850 lbs. of milk, and 468 lbs. of fat, score 13,06 points, owneré by W. C. Tully, Athelstan, Que. The 'score of pc'nts was as follows. One point for every pound of milk over the amount re-quired to qualify, 32 points for each pound of lat over the amount re-quired to qualify, and 10 points for each day between the freshening per-iod after calving and the time limit from the commencement of test. All animals were to mish the test with-it animals were on sules had

in the year. An increased number of sales had

In the year. An increased number of sales had been made during the year and air er-end increased number of sales had been made during the year and air er-end increasing and the shored the young buils from record to young buils from record the vork of A. O. P. work. The Stephen strongly commended the work of Ayrshire clubs of which for area on a in the West and one on British Columbia. The South pro-pressive work and through its in-pressive work and through its in-discontraction and and the shored of dyrahires have been started in that discomplish by creating a greater the main favor of a breed in the yourg main lades. Amendments to the Constitution

Amendments to the Constitution Amendments to the Constitution The chief business of the meeting was the amendment of the constitu-tion of by-laws. Experience had shown that the requirements of the present day and accordingly it was brought before the members for revision. So extensive were these amendments that it might be said vision. So extensive were these amendments that it might be said that the whole constitution was re-written. Some of the proposed changes did not pass the meeting and considerable discussion to add-Boo to the registric of a mismal was for a second to the second second others, Senator Owen strongly ob-jected to this regulation with the re-sult that it was struck out of the new constitution. Legal advice had been secured on the point as to whether or not the Association could prohibit a man from recording. This, according to law, cannot be done. For a meeting of the Association under the new constitution a quorum shall consist of at least 15 members. At a directors' meeting seven and at a meeting of the executive commit-te five shall be a quorum. Dipomas For Bulls Diplomas For Bulls

The members of the Association were confronted with a heavy knot-ty problem when the question as to

whether of a bull standing Mr. Steph the breed should 1 claiming in the R that in su entitled to er. Diffici deciding ow yers to receive was supp number of jority ho granting and a re Hume, Ca onded by was carri follows: the time i be given sequent o association

cents. J. L. St for a deci point which A bull ha by one of desire to longing to violating t chased th another m and this that the a pedigree that the a and that be er of havi butcher w have it re their herd. in which l ed in such unanimous Owen in t Provincial The que

Minister of ious provin ses grantes auctioneers sell registe auction and be amende secure a li vince was sell who Breeders a spoken to brought up issued for is sometim breeder to ctioneer su his herd to outsider ha new license which campocket. It some prote to Canadian tioneers in States. The was carried The ques

annual meet R. R. Ness. that it had numbers us were one-ha soon becam were of lit or numbers ported stock ruch larger satisfactory. the matter.

All the ol came befor elected. Th 1916 were a Ste. Marie, President W ford, Ont.; \$ Huntingdon, Dawson, Ott

Febru

February 10, 1916

whether the owner or the breeder of a built that had won the R. O. P. standing abuilt receive the diploma. Mr. Stephen was of the opinion that the breeder or importer of the built the breeder or importer of the built and the breeder or importer of the built of the breeder of the breeder entitled to more credit than the owne that in anch a case the break and entitled to more credit that the was er. Difficulty would also be met in deciding which of several successive owyers would be the one entitled to receive the diploma. In this he was supported by a considerable number of the members. The ma-jority however, were in favor of granting the diploma to the owner and a resolution noved by Alex. and a resolution noved by Alex. and a resolution the matrix which, was carried setting the matrix shall be given the diploma and any subbe given the diploma and any sub-sequent owner requiring a copy of the diploma may secure one from the association upon the payment of 50 cents

J. L. Stansell, Straffordville asked J. L. Stansell, Straffordville asked for a decision of the meeting on a point which had come to his notice. A bull had been sold to a butcher by one of the breeders who did not desire to have it registered as be-longing to his b-d. The butcher violating the terms on which he pur-violating the terms on which he pur-sent the breeder furnish him with a mediares. Senator Owen, stated a pedigree. Senator Owen stated that the animal was sold as a grade that the animal was sold as a grade and that breeders must have the pow-er of having an animal sent to the butcher when they do not wish to have it registered as coming from their herd. This was the only way in which breeders could be protect-ed in such a matter. The members do not a supported Senator Owen in this optimion.

Provincial Licenses For Auctioneers The question of petitioning the Minister of Agriculture of the var-ious provinces to have special licen-ses granted to pure bred live stock auctioneers under which they could auctioneers under which they could auctioneers under which they could suctioneers under which they could auction and requesting that the law be amended so.that auctioneers may secure a license for the whole pro-vince was introduced by J. L. Stan-sell who stated that the Holstein Breeders and Shorthorn men had spoken to him to have the matter brought up. Licenses at present are issued for the county only and as it is sometimes an impossibility for a b-cioneer sufficiently familiar with his herd to sell it to advantage, an outsider had to be brought in and a ans nerd to sell it to advantage, an outsider had to be brought in and a new license secared, the cost of which came out of the breeder's pocket. It was felt by some that some protection should be granted to Canadian auctioners against auc-tioneers imported from the United States. The resolution, as introduced, was carried. was carried.

The question of tatooing, which had been discussed at the previous had been discussed at the previous againal meeting was again broucht up, K. R. Ness, Howick, Que., reporting that it had been found that if the numbers used in making the marks were one-half inch or smaller, they soon became indistinct and in a year were of little value. Larger letters ported stock remained not soon im-ported stock remained not soon in prove larger period and might for a satisfactory. No action was taken on the matter. the matter.

6

Ibe matter. Elections All the old directors whose names came before the meeting were re-elected. The following officers for 1916 were appointed.—President M. Ste. Marie, Compton, Que,; vice-President W. W. Ballandyne, Strat-ford, Ont.; Secretary W. F. Stephen, Huntingdon, Que.; Registrar A. R. Dawson, Ottawa, Ont.

FARM AND DAIRY

1870 1916 Forty-Sixth Annual Report of Canada's Only Mutual Life Assurance Co.

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

Income \$ 4,972,782 Paid to Policyholders 2,035,814 Assets 26,894,524 Surplus 4,258,737 Assurance in Force 101,092,030	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. 1875 1885 1895 1905 1915	270,697 735,079 1,956,519	Assets. \$ 53,681 750,344 3,123,575 9,296,092 26,894,524	Paid to Policyholders, \$ 4,625 115,669 328,829 552,914 2,035,814	Business in Force. \$ 1,177,085 8,259,361 19,312,477 44,177,954 101.092,030
	-1	molos sloss	m10000101-0	101,092,030

A full report of the proceedings of the Annual Meeting and the detailed financial statement will be mailed to every policyholder in due course.

GEO. WEGENAST. Managing Director.

110

The same provincial vice-presi-dents will here provincial vice-presi-with the neception that J. H. Black, Lachute, Orien Edded Robt. Ness of Howick, Que, Deded Robt. Ness of Howick, Que, Deded West Boards are the same as forces to fair excent that M. Ste. Marie and W. at Stephen succeed G. D. Mode, Vas-leek Hill, and John H. Black, Lachute, Que, as representatives at the Ox-Que., as representatives at the Ot-tawa Fair. The following also retain

tawa Fair. The following also retain office for the coming year:--Delegates to the National Record Board, W. W. Ballantyne, John Mc-Kee, W. F. Stephen, and H. C. Ham-ill; Delegates to the National Live-stock Association, W. W. Ballantyne, R. R. Ness, and W. F. Stephen; Registration committee, R. R. Ness, W. F. Stephen, the Accountant and the Revistrar. the Registrar.

GRANTS TO EXHIBITIONS.

The grants to many of the large throughout the Dominion were so tially increased. For the coming yes will be as foll Ontario. Grant In ronto (National) Ottawa London 150 Quebec. terbrooke tree Rivers

Valleyfield Maritime Provinces

	Manitoba.
r fairs	Brandon\$ 50
dbstan-	Saskatchewan
ar they	Regina
	Saskatoon 50
	Prince Albert 95 495
	North Battleford 25 25
icrease.	Alberta
850	Calgary
50	Edmonton 75 25
	Red Deer
	The exhibitions in New Westminster and
	Victoria being cancelled, \$50 was granted
\$50	to Vancouver exhibition.
	Grants to Dairy Tests and Winter Shows.
-	
50	Guelph Winter Fair 200
	Ottawa Winter Fair
-	At each of the above Winter Fairs an
825	additional grant of \$100 is given for broad.
	ing classes of bulls.
	Brandon Dairy Test
hn, in-	Oalgary Dairy Test
ant or	An additional grant of \$25 is given to
25	each of these two fairs for mature class of bulls.

E. P. CLEMENT, President.



Ontario Farmers Do a Good Year's Business

WHEN the United Farmers' Cooperative Company, Limited, was organized in Toronto a little less than two years areo, if it had been predicted that the Company during the second year of its car to gene would make sales an overage of \$25,981,57 a month, or over \$1,000 a day for each working day in the year, the prediction would hardly have been credited. Yet such has been the case, as was shown by the reports presented at the second annual meeting of the Company held in Toronto, February 2.

There was a large and representative attendance of shareholders. Most of the stock of the Company is held be branches of the United Farmers of Ontario. Many of these branches were represente ib delegates who were present in the city to attend the annual convention of the United Farmers of Ontario.

Farmers of Ontario. The prevident and general manager, Mr. Anson Groh, announced that as a result of the business accomplished and the connections established, the Company was already firmly established. So much interest has been taken in the Company since its orrganization it has been said that it was filling so much space in the bopes of the true cooperators throughcut the province as well as among farmers generally that if it should start to plunge or allow anything to overthrow its prosperity the future of the movement would be doomed for

Mr. Grah pointed out that most of the business was done during the winter months, and that the revenue of the Company out of its turnover of or a trifle over two per cent commission on the business handled. What other business concern of the same character, he asked, could hope to do business on such a small margin? The Company had made a misrake when it undertook to nay rebates of 25 per cent to the locals before ascetaining what its own costs and before a suggested that thereafter it would he better for the Company to meet all its own expenses before naving rebates to the locals.



The report of the Board of Directors was read by Mr. John Pritchard, of Gorrie, Ont. The chief growth of the undertaking had been in the connection it had established with clubs commercial houses of high standing. This represented a substantial advancement. During the year Mr. A Groh had been appointed manager, and a new and better suite of offices had been engaged at 100 Church Street. A small monthly trade bulletin had been started. Attention had been engaged at 100 Church Street, a small monthly trade bulletin had been started. Attention had been charter to note. Tade and poultry, as well as in fruit, yegetables, builter, esgs, potaloes, onions, peas and beans.

peas and beans. A separation had been effected betweeh the accounts of the Company and of the United Farmers of Onorganizations. These accounts would be kept separate in the future. The directors recommended that instead of paving rebates to the locals on the basis that has been followed in the past these rebates so the locals.

Stock Account

The time had come when a more vigorous campaign should be conducted to sell stock and thus increase the working capital of the Company. The success the Company had already attained would justify farmers in investing in stock. Later farmers present at the meeting subscribed. In view of the war in Europe the strictest po-sible economy in the management of the company was urged. The sharbholders were congravitation on the fact that the Company rate is the sharbholders were congravitation.

In view of the war in Europe the strictest po-vible economy in the management of the Company was urged. The shareholders were congratulated on the fact that the Company had been able to repay a dividend of seven per cent, the most its by-laws allowed it to pay, on capital stock. The Company's surplus was, roundly speaking, \$1,463. The announcement was made that the fawyeer or was absolutely illd decided that it he manner that had been followed. Financial Statement. The report of the andurer Mr as

The report of the auditor, Mr. A. J. Revnolds, of Solina, was presented by Mr. S. Grob, the accountant of the Company. It showed as follows: Revenue.

Commissions	86,348 82
Salaries and wages, Officers	
and Staff	
Organization	
Rent	
General Expenses	
	84,491 12
Profits for the year	\$1.857 70
Legal Expenses for 1914 \$17 64	041001 10
Deficit for 1914 brought	
forward	
	239 26
Balance	81,618 44
Dividend	162 58
Delever	A4 474 64
Balance	\$1,400 80
Cash on hand and in bank \$ 585 61 Unpaid subscribed stock 1,252 50 Accounts receivable	84,556 33
Rebate adjustment	. 1,208 15
TotalLiabilities.	
Accounts Payable	
	571 04
Surplus Balance Estimated Unpaid Rebates \$ 531.59 Capital Stock Account.	85,193 44
Amount paid on subscribed stock Amt. unpaid on subscribed stock	.\$2,322 50 1.252 50

February 10, 1916



also any Bunch or Swelling. No blister, no hair gone, and horse kept at work. Concentrated—only a few drops required at an application. \$2 per bottle delivered.

application, \$2 per bottle delivered. Book 3 K free. ABSORBINE, JR., antiseptic liniment for fman, kind, reduces Cysts, Wens, Painful, Knotted Varicose Veins, Ulcers, \$1 and \$2 a bottle at declares or delivered. Book 'Evidence' free. W.F. yoUKG, P.B.F.753 Lomans Bidg, Montreet, Can Absorbies at Absorbies. T., are under in Cando.



Carefully weeded while growing, price 900 per bushel. Samples sent on request 16 oz. Cotton Bags, 300 extra. / Bags hold Three Bushels. EDGAR, BRODERICK, R. R. EXETER.

O.A.C. No. 72 OATS FOR BALE-Good Clean Seed, true to name, selected from prize winning field a year seo. Price do per bush. FO.B., Woodville, Backs free. GEORGE MEKAGUE, R. R. No, 4 Woodville, Ont.



Owing to the scarcity of good-seed this year old and prospective customers should order without delay.

WALKER SONS, WALKERVILLE, Ont.



Je FEAR the mee Cattle Cl well as th ering and club. The annu on Tuesda on record taken in larly in t tion and t tically a red, the ol

complete.

elected to

Februa

The rep showed re farm nam registers o total \$2,1 were, salar audit \$4.2 Where salar audit \$4.2 Where salar audit \$4.2 Where salar Quebec, 6 Columbia, 27 New Br 11 Prince were \$87 tt from memil

The follo Pres.—F Ist Vice-2nd Vice Sec.-Tre Directors John Prin Edgeley; J Gee, Hage Messrs.. are new me

Consider, the election Russell Flee the position sulted in the although M siderable for Financi

Balance bre Registration herd 1 register Membershin Interest ...

Tot

Office exper Printing . Live stock ' Record per 1913 an C. N. Exhii Western F special Record Con registra Salaries, B. 1914 ... Record Co

count, 1 Directors' e General exp Balance ... Tota

Mr. Dunc Agriculture breeders by experimental each of wh pure-bred ca

pure-bred ci breed being Jerseys have that have ne tuberculine every six me sometimes d zero. The Medicine Ha stock is now

A proposa should appo

Jersey Breeders' Prosperous Year

FEAR by year for several years the attendance at the annual meetings of the Canadian Jersey Cattle Club has been increasing as well as the interest taken in the gath-ering and the bank balance of the ering and the bank balance of the club. This year was no exception. The annual meeting held in Toronto on Tpesday of last week was the best on record to date. Keen interest was taken in the discussion; particu-larly in the revision of the constitu-ion and the election of officers. Practhe tically a new constitution was adopted, the old one having been very incomplete. Several new men were elected to the directorate.

Registrations

The report of the Record Office howed receipts from memberships, showed farm names, herd books and herd registers of \$2,114.37, interest \$43.81;

registers of \$2,114.37, interest \$43,81; total \$2,165.18. The expenditures were, salaries \$650,76, refunds \$33.79, audit \$4.96. Total \$666.61. There were 1,065 registrations, of which 554 were from Ontario, 162 Quebec, 69 Nova Scotia, 89 British Columbia, 62 Alberta, 50 Manitoba, 27 New Brunswick, 20 Saskatchewan, 11 Prince Edward Island. There were 887 transfers, and \$542 received from memberships. from memberships

Officers Elected

Officers Elected The following officers were elected: Pres.--F. L. Green, Greenwood. 1st Vice-Pres.--U. O. Bull, Toronto 2nd Vice-Pres.--H. A. Dolson, Alloa Sec.-Treas.--B. A. Bull, Brampton. Directors: R. J. Fleming, Toronto; John Prinzie, London; Geo. Bagg, Edgeley: J. M. Dolson, Alloa; H. H. Geo, Hagersville. Messrs.. Pringle, Dolson, and Gee

are new members of the executive. Considerable interest was taken in

Considerable interest was taken in the election of the secretary, Mr. Russell Fleming being nominated for the position A vote by ballot re-sulted in the re-election of Mr. Bull, although Mr. Fleming had a con-siderable following.

Financial Statement-Receipts Balance brought forward .. \$1,264 33 Registration, farm names,

	herd	bo	oks	and	he	rd		
	regis	sters		 	 		1,572	37
Mei	nbers	ships		 14	 		542	00
Inte	rest				 		43	81

irs

nt.

1.5. 1.

ire

}ue.

en the

NT

Expanditures

Office expenses	\$ 55	26
Printing	49	48
Live stock car	30	00
Record performance prizes,		
1913 and 1914	250	00
C. N. Exhibition	30	00
Western Fair Association,		
special	25	00
Record Committee, 1914 re-		
registrations s	394	45
Salaries, B. A. Bull, balance		
1914	250	00
Record Committee on ac-		
count, 1915	250	
Directors' expenses	91	
General expenses	32	
Balance	1,964	55
Tetal		

Hardy Jerseys

Mr. Duncan Marshall, Minister of Mr. Duncan Marsnall, Minister or Agriculture for Alberta, pleased the breeders by stating that on the seven experimental farms in Alberta, on each of which only one breed of pure-bree cattle is kept, a different breed being kept on each farm, the breast brees brees the data of the second brees brees the second secon breed being kept on each jarm, the Jerseys have been the only breed that have not had a reactor to the tuberculine test, which is applied every six months. The thermometer sometimes drops to 50 degrees below zero. The Jersey herd is kept at Maticine Has where zero. The Jersey herd is kept at Medicine Hat, where some excellent stock is now maintained. A proposal that the association should appoint representatives to

join with representatives of the other live stock associations in consulting with the Union Stock Yards in re-gard to the establishment of a central office in Toronto, to be maintained in the interests of all the breeds, for the dimensionic of the formation of the dimensionic the dissemination of information, maintenance of a library, to provide formed to the board of directors for further consideration.

A suggestion that the association should hold an annual banquet as is done by several associations was not supported owing to the country being war.

It was decided to give the usual

Receipt Stubs Lost

<text><text><text>

RENEWALS.

RINEWALS. Of Intersonme of Our Folks have find agents. We would much rati-tic the second of the second second the second second second second the second se

grants to the various exhibitions, but to increase the grant to the Guelph Winter Fair to \$50, provided the cow winning the test is a Jersey.

The executive was authorized to spend such money as it deems best to advertise the Jersey breed in the public press. Judges to Fairs

A motion was made by Mr. Flem-A motion was made by Mr. Frem-ing that the association should dis-continue appointing or suggesting judges to the local fair boards in or-der that the local exhibitions would prefer to select their own judges was withdrawn when it was pointed out by Mr. Archibald that were the assoof an architecture of the second of the seco ng judges were named for the exhibitions named

Toronto: Harry Jenkins, Cottage Grove, Ill.

London: Hugh Clark, Norval. Ottawa: Jack L. Clark, Brampton. Halifax: H. A. Dolson, Chelten-

Fredericton: H. G. Clark, Norval. New Westminster: G. D. Duncan, Todmorden. Sherbrooke and Ouebec: Prof.

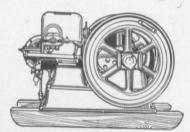
Sherbrooke and Quebec: Prot. Archhald, Ottawa. It was decided to publish the sec-ond volume of the herd book. The cost will be about \$700 for 500 vol-umes. It will contain about 3,300 pedigrees, the Record of Perform-ance tests, and index of animals and such other information as the direc-ter may decide. Conies will be seri-

ance tests, and index of animals and such other information as the direc-tor may decide. Copies will be sent fire all members. Toronto, D. G. Ball; London, T. Brien, A. Little; Ottawa, F. L. Ven, W. P. Hurdman; Halitax, Roy Pipes; Fredericton, C. Creighton; Gordon Burdell; New Westminster, Neptune Grimmer; Brandon and Regina, A. O. Pringle; Sherbrooke, E. O. Baldwin; Guelph, H. H. Gee. A sarew constitution that had been A sarew constitution that had been described by the meetimemute for submission to the submission to the meetime submission to the meetimemute for submission to



(9)

121



Note the prices we quote on the PAGE 1% H.P...... \$46.50 3 H.P..... 68.00

A farm hand that likes work! Its name is PAGE

Employ THIS kind of help-you'll never "fire" it. It works with energy-an energy supplied by gasolene. And it does almost all that human hands can do-but does it more quickly. more

hands can do-but does it more quickly more commission. When you decide to install this kind of farm hand, you'll find by a little investigating that hand, you'll find by a little investigating that tures to look for in piloity are the great fa-tures to look for in piloity are the great fa-tore to look for in piloity are the great no more-costs less in fast-than the ordinary run of engine. Investigate-and you'll most certainly select the Fage, its only common same to do so-mince know d. We have have any other we have d. We not solve than any other we

Make us prove it-we give you a wide-open chance. We send it to you (freight propaid) to try for 30 days. At the end of that time, if it hasn's convinced you, return it and we'll send book the money without argument. Put it to the test.

Write to, Farm Power Information Bureau THE PAGE WIRE FENCE COMPANY LIMITED. 1139 KING STREET W. TORONTO

FARM AND DAIRY AND RURAL HOME PUBLISHED EVERY THURSDAY

SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, \$1.20 a year. For all countries, except Canada and Great, Britain, add 50c. for postage.

and Great, Britain, add 50x, for poetage, ADVERTISING RATES, 12 cents a line flat, 81.68 an inch an insertion. One page 48 inches, one column 12 inches. Copy received up to Saturday preceding the following work's issue.

UNITED STATES REPRESENTATIVES

STOCKWELL'S SPECIAL AGENOY Chicago Office-People's Gas Building. New York Office-Tribune Building.

CIRCULATION STATEMENT

CIRCULATION STATEMENT The puid subscriptions to Parm and Dairy number opies of the paper sent subscripters who are but sightly in arrears, and subscripters who are but sightly in arrears, and subscriptions are accepted to the set that the full subscriptions are accepted apper, showing its of tree on request. OUR GUARANTEE. We Quarante that subscription in the issue

The Burger by the sense of readers. OUR OLARATIEL We characteristic that every advertises on the lassing we reliable. We are plot and bury part and the sense the sense of the sense of the sense of the sense time of the sense of the sense of the sense time of the sense of the sense of the sense time of the sense of the sense of the sense time of the sense of the sense of the sense the sense that in the sense of the sense of the sense that in the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the the sense of the the sense of the sense of the sense of the the sense of the sense of the sense of the sense of the the sense of the sense of the sense of the sense of the the sense of the sense of the sense of the sense of the the sense of the sense of the sense of the sense of the the sense of the sense of the sense of the sense of the the sense of the the sense of the sense of the sense of the sense of the the sense of the sense of the sense of the sense of the the sense of the the sense of the the sense of the sense of

The Rural Publishing Company, Limited PETERBORO, ONT.

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and con sider."--Bacon.

Good Roads and Bad Theories

UTLINING the Ontario Government's good road policy before the annual meeting of the Ontario Experimental Union, Hon. Finley Macdiarmid, Minister of Public Works, stated that one of the benefits to be derived from the improvement of roads throughout the Province was that it would result in settling many more city men on the farms. It had been the experience everywhere, said the Minister, that good roads increased the value of farm land from five dollars to twenty-five dollars an acre. The building of railways had created a tendency for population to concentrate in cities, but it was hoped that the building of good roads would set up a 'tendency for population to flow in the opposite direction, and that this would result in a marked back to the land movement.

Just how a rise in the price of land would enable city men to buy more of it, the Minister did not state. In our towns and cities, 'there are thousands of men who would gladly go back to the land but for the fact that this farming business requires capital, and they are short on that particular commodity. If they are to be 'assisted in their commendable endeavor to acquire a home in the country, it will never be by increasing the amount of capital needed for the purpose.

The only "back to the land" movement worth writing about that has occurred in recent years, was that experienced in Western Canada during the first twelve or fourteen years of this century. In some localities, as high as 60 per cent. of the homesteaders were genuine back-to-the-landers. The reason for the movement is not far to seek. Any one with a \$10 bill could establish his claim to 160 acres, and by carefully husbanding his earnings, he could, in three years' time, secure a clear title to the land. If there had existed a barrier of \$10 or \$20 an acre between them and the land, it would have been as inaccessible to the majority of homesteaders as Paris or Calais is to the Huns at the present time.

By all means let us have as good roads and as many of them as possible, provided they are built with a view to assisting the farmer in getting his produce to market, rather than to allow the idle rich to travel in limousine luxury from one city to another. But do not let us indulge the folly of thinking that good roads will solve the rural problem. There are things that macadam will not do, and the creating of a tendency for population to flow back to the country is one of them.

Seed Grain Centres

N Farm and Dairy last week, the North Gower Registered Banner Oats Centre, offered for sale 5,000 bushels of improved Banner oats and 3,000 bushels of registered Banner oats. Farm and Dairy draws attention to this advertisement, not as an advertisement, but as an indication of a great new development in the seed growing trade of the country. We believe that advertisements such as this will become more and more common as the years go by. In case there are any of Our Folks who have not followed the development of the seed centre idea, an explanation may be timely.

The Canadian Seed Growers' Association is the father of the scheme. The seed centre is a species of neighborhood cooperation. Districts are selected which are specially suited to the production of high-class seed of some one crop. Interested farmers get together and a variety is selected. All of the members of the seed centre grow that one variety and select their seed according to the rules of the Seed Growers' Association. The North Gower Centre, for instance, specializes in Banner oats, the Manvers Potato Centre on Green Mountain potatoes, and so on through the various centres, of which there are now a score or more organized in Ontario. Having produced their seed cooperatively, these centres sell cooperatively. The scheme has all of the advantages of cooperative production and cooperative marketing, and its extension should result in great benefit both to seed growers and seed buyers.

Payment for Public Improvements

THIS is not a parable, but a parallel. Many, many years ago the cultivated land in Egypt was confined to the borders of the Nile. British engineers conceived the ideal irrigation on an extensive scale to widen d available for crop production. As a r Assouan Dam and other irrigation works in Egypt were constructed at a cost of about \$53,000,000. The increase in the value of the land in middle and lower Egypt and the Fayoun provinces, largely as a result of these irrigation schemes, was from \$955,000,000 to \$2,440,000,000. The total rent on this land has risen from \$82,000,000 to \$190,-000,0000. The increase in ground rent for one year would have paid more than double the entire cost of the dam and other irrigation works, but the Egyptian Government was not wise enough to appropriate this gift for such a purpose. Instead, it followed the Canadian method of issuing bonds to run for many years, and permitted private landlords to appropriate the increased values.

A few years ago good road enthusiasts of the touring car class conceived the idea of a cement highway from Toronto to Hamilton. Taxpayers objected, but in the end the motor owners had their way. The great highway is now under construction. The cost will be stupendous. Already the first estimates have been far exceeded, and in an effort to placate the people, 'the chairman of the Commission that has the work in charge told us the other day that the increase in

land values due to the construction of the road would be more than double the cost of the enterprise. This apologetic explanation will be small solace to the thousands of taxpayers who will have to pay for an undertaking that will enrich a few land owners who will not be called upon to make anything like a commensurate contribution to the cost of the scheme. Apparently, Egyptian darkness in political economy 'is quite equalled in density by our own.

The Seed Situation

THE seed situation in Canada is not a promising one. If there is not an actual scarcity of seed next spring, our information is already sufficiently authoritative to enable us to state definitely that there will be a decided scarcity of first-class seed. Farm and Dairy has already mentioned the small supplies of good clover and alfalfa seed available, and now it appears that the corn situation, taking the continent over, is even worse. Across the line in Michigan, the agricultural college there has been unable to find sufficient seed corn in the state to supply Michigan farmers next spring, and this scarcity is expected to cause serious trouble when planting time arrives.

As a result of this scarcity, much inferior seed will necessarily be used. There was never a season, therefore, when testing of all seed before seeding was more essential than it is this year. In many cases it may be necessary to seed half as heavily again to get the same number of plants per acre as has been the practice in the past. The first seed ordered will be the best seed delivered, as early orders always get the preference from seedsmen, but whether the seed is ordered early or late, it should be tested for germination.

Shade Tree Butchery

T HE destruction or mutilation of shade trees by telegraph and telephone linemen has long been an aggravation to home owners in our towns and cities. There have been similar depredations in the rural districts, but these have not raised the same feeling of bitterness, probably because we have more trees to spare. Many cases have come to our notice, however, of where Our Folks have had valuable trees decapitated or one side cut completely away to suit the convenience of the linemen. This destructive work has been carried on with such an air of assurance, fortified by many specious claims, that people have hardly known just how far they could legally carry their objections. A recent circular from the Canadian Forestry Association settles the question for good and all.

According to the Attorney-General of Ontario, linemen and contractors have no authority whatever and cannot legally remove any part of a tree without the permission of the owner or the municipality, and any person destroying or injuring a tree is liable to a fine not to exceed twenty-five dollars and costs, or imprisonment for not more than thirty days. The next time a lineman comes for slaughter, we can meet his cocksure attitude with one of equal assurance, and "call his bluff."

"The back to the soil trend is a city movement. The real country life movement is a campaign for rural progress conducted mainly by rural people, not a paternalistic plan on the part of city folk for rural redemption. It is defined by one of the great rural leaders as the working out of the desire to make rural civilization as effective and satisfying as other civilizations, to make country life as satisfying as city life and country forces as effective as city forces."-G Walter Fiske.

Februa

Ontar

Consider on a motio laws of th been giver Barrie. M Barrie. M executive o of five mer dent, the tary should of the motifor the poli directed la li committee, board of di agement wo hands of th ment was o cussion the and that it over nine. be made at and the terr four years,

A notice of given by M was consider for re-electio term of offic nized that th good feature would res shareholders nual meeting vent the valuable moshould their able. It was ness firms co ers' Company hands by suc full discussio not seconded put to the

On motion was decided electing direct was outlined ment mailed Addres

A feature splendid addr the president Grain Compa argest and n husiness com in the world. our reporting this issue, bu as a special a showed how h ten years ago, grapher and d a paid-up capi carned profits has offices in 1 Its employees from the first the end of the its offices in W bushels of gra Mr. Crerar

pany had mad ad endeavore mistakes. He portance of eng even if higher stated fra the Ontario Co do business or sion. Mr. Cre orable impress nized that he w perience, whose carefully conside Office

The election in the re-election E. C. Drury, e election of a ne son of Mr. B. Hastings county of the most suc ions in the pro d

11

n

lv

of

nd at

is

he to

lv

ıt.

ed a-

re In

as

its et.

ed er-

is

for

..... ng

ms

ms

sed

ise

ave

lks

ide of een fied dly

leir

ian boo

rio,

hat-

tree

mi-

ing

five

ore

mes

ude

ff."

ove-

am-

by

part

ned

ring as

, to

and

-G .

Ontario Farmers Do a Good Year's Business (Continued from page 8)

Considerable discussion took place on a motion of amendment of the by-laws of the Company, which had been given by E. C. Drury, of Barrie. Mr. Drury's amendment pro-vided for the amendment probeen given by E. C. Drury, or Barrie. Mr. Drury's amendmen pro-vided for the appointment of an executive committee to be composed of five members, of which the presi-dent, tike vice-president and secte-tary should be members. The object of the motion was to make it possible for the policy of the Company to be dimensial argely by the executive hoard of directors, to control of the motion of the motion of the hands of the manager. The sim the ment was carried. During its dis-cussion the opinion was freely ex-pressed that the board, which is now composed of 13 directors, is too large and that it should be reduced to not over nine. Such an amendment may be made at the next annual meeting and the term of office, which is now four vears, may be reduced. Directors' Terms. A noice notion which had heen

A notice of motion which had been given by Mr. J. J. Morrison, who presented it at the request of others, was considered. It provided that re-tiring directors should not be eligible for re-election for one year after their term of office expired. It was recog-nized that this amendment had some good features, but it was feared that good features, out it was reared that it would restrict the power of the shareholders to do as they like at an-nual meetings, and that it might pre-vent the election of particularly valuable men on the directorate valuable men on the directorate should their re-election seem desir-able. It was pointed out that busi-ness firms competing with the Farm-ers' Company would not the up their hands by such an amendment. was not seconded and therefore was not put to the meeting. On motion of Mr, W. C. Good, it was decided to amend the method of electing directors. The new method was outlined in the notice of amend-ment mailed to all the locals. Address by Mr. Creara.

Ment mailed to all the locals. Address by Mr. Crerar. A feature of the meeting was a splendid address by Mr. T. A. Crerar, the president of the Grain Growers? Grain Company, of Winnipeg, the largest and most successful farmers' largest and most successful farmers' business company in Canada, if not in the world. Lack of space revents our reporting this address in full in this issue, but it will be published as a special article later. Mr. Crer ur s'owed how his company was 'i_a'ted ten years age, with a amaager, steno-grapher and desk, and that now it has a paid-up capital of over \$909,000, ha: earned profits of over \$909,000 and has offices in many parts of the West. has offices in many parts of the West. Its employees number over 500, and from the first of last September to the end of the year handled through its offices in Winnipeg over 28,000,000 bubble of grain bushels of grain. Mr. Crerar stated that their Com-

pany had made many mistakes, but had endeavored to profit from their mistakes. He emphasized the immistakes. mistakes. He emphasized the im-portance of engaging competent men, even if higher salaries had to be paid, and stated frankly that he thought the Ontario Company was trying to do business on too small a commission. Mr. Crerar made a most fav-orable impression. It was recog-

sion. Mr. Crears made a most raw-orable impression. It was recog-nized that he was a man of wide ex-perience, whose advice should be carefully considered. Officers Elected. The election of directors resulted in the re-election to the board of Mr. F. C. Drury, of Barrie, and in the election of a new member in the per-ent of Mr. B. C. Tucker, of Harold, Hastime county, the scretary of one Hastings county, the secretary of one of the most successful local 'organizaions in the province. At a subsequent meeting of the board officers were elected. The directorate is com-

auent meeting of the board officers were elected. The directorate is com-posed as follows: President: Iohn Pritchard, Gorrie, Ont.; Vice-President: C. W. Gurreot Paris, Ont.; Managing Director: Anson Groh: Secretary-Tresure J. I. Morrison, Arthur, Ont. Directors: E. C. Drury, Barrie, Ont.; C. F. Whittaker, Williamsburg, Ont.; Geo. Carlaw, Warkworth, Ont.; W. C. Good, Paris, Ont.; John Z. Fraser, Burford, Ont.; S. A. Beck, Cavuga, Ont.; L. Schnurr, Shallow Lake, Ont.; B. C. Tucker, Harold, Ont. Ont

Ont. Addresses. A number of addresses bearing on the work of the Company were de-livered at the meetings of the United Farmers of Ontario. The secretaries of several clubs reported that strenu-ous efforts were been that strenuous efforts were being made by various firms to injure the central company by offering the local clubs lower prices than were being quoted by the central. An outline of these addresses is given elsewhere in this

addresses is given elsewhere in this issue. The reports and addresses showed that the United Farmers' Cooperative Company has made splendid pro-gress, that it has many difficulties to overcome: that opposition against it is certain to grow keener: that it is doing a splendid work for the farmers of the province, and that its future success is going to depend upon the loyalty shown towards it, not only by the local farmers' clubs, but by all the individual members. This is the shistory of the Compavy ready aroused. That the Gompavy ready aroused. That the Compavy end now important it has club a soft being accomplished waluable soft purchase additional stock, ...rome to armers stood up and each work are a share. Continued support of this character is all that is rounded to ensure the future great success of the Company. nsure the future great success of the Company.

Protection

(By a U. S. Free Trader) E DITOR, Farm and Dairy,-The Empire calls upon the Dominion for soldiers, machinery and muni-tions. Thus the very prosperity which war has peculiarly thrust upon Canada becomes a tax on her natural reources.

Whence shall come the replenish-ment and from whom? From whom but the farmer? Agri-culture is the very basis of prosperity and national safety. Really, does it receive its due?

Food for your armies is free, yet food for your crops is taxed. War machinery is free, yet agricultural machinery is not. "Protection!" you say. Then why not protect your makers of ammunition? Remember, your agriculture is more essential than your commissary.

Duties on commercial plant food, implements and tools are detrimental to Canada's interests. Few Canadians are "protected" - very many are harmed.

Give your farmers a chance to raise bigger crops at less cost and on smaller areas. Let them choose, in all markets, complete, well-balanced fertilizers and a greater variety of labor-saving machinery at reasonable prices.

Subordinate the interests of the individual to the interests of the State. Thus do your enemies win and thus only can you win. - H. H. Charles, New York.



In fact, about the only excuse ever offered for buying any other separator nowadays is that its first cost is a little less than the De

But they soon find out the last cost of a cream separator is what really counts, and when they realize that the De Laval gives the most and best service for the money they buy a De Laval.

Over 40,000 users of inferior machines discarded them for De Lavals during the past year in the United States and Canada alone. Better be right in the first place and start with a De Laval

DE LAVAL DAIRY SUPPLY CO., Ltd. LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA EAROPACTURERS OF DATRY SUPPLIES IN CANADA Sole distributers in Canada of the famous De Laval Cream Separators and Alpha Gas Engines. Manufacturers of Ideal Green Feed Silos. Catalogues of any of our lines mailed upon request. MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER





Of course you use all your stable and stall manure—sometime or other. But does it first lose its value by leaching and firefanging? Everything Depends on How it is Used!

First thing you do, cut out the coupon below, fill in your name and address and mail to us. By return of mail you will receive a copy of the book that will make you see manure in a new and profitable light.

Mail the Coupon

Today

for

this

Everything Depends Bulletin 223, issued by the Ontario Department of Agricul-ture, proves the incontance the Department of the second of the memory of the second of the Memory of the second of the Department of the second of the Department of the second of the Department of the second of the Called "Helping Mother Nature, The Value of Manure and How to Utilize It." It's a revelation of how much a farmer can add each year to his profits. It will help every farmer who reads it We have reprinted it (six chap-ters) for FREE distribution.

ISC Spreaders Save Labour!

Earn You Money!

PUREST-CLEANEST

MOST RELIABLE

GET CATALOGUE

AT BEST DEALERS

OR DIRECT

The Nisco has cut down the actual work of fertilizing to a BOOK minimum and insures a even spread of finely ----FREE wide pulverized manure. Every turn of the wheels earns you The NEW IDEA SPREADER CO., Limited GUELPH, ONTARIO money. Please send me the book, "HELPING The New Idea MOTHER NATURE." Spreader Co. Limited Name "Spreader Specialists" GUELPH, Ont. Address



Holstein Breeders in Optimistic Mood

Increases in Membership, Registrations and Transfers Reported at the Annual Meeting Last Week.

O Filmina was the prevaiing sen-timent of the 33rd annual meet-ing of the Holstein-Friesian Association of Canada, held in To-ronto on Thursday of last week. In spite of the disturbances caused by a world-wide war and the curtailment of the market of pure-bred cattle in the market of pure-bred cattle in some directions, due to the collapse of the real estate boom, the Holstein Association has enjoyed a most pros-perous year. The membership of the association has increased up to the 2,900 mark. The finances of the asso-ciation showed a greater cath halance ciation showed a greater cash balance chation showed a greater cash balance than for the year preceding. "As one of your retiring officers," said Pre-sident D. C. Flatt, in his opening address, "I may be pardoned for saying that there never was a time in saying that there never was a time in the history of your association when it was so necessary to select the best men possible to form your executive." And the necessity for the selection of the best men be attributed to the verwidening range of its officers' responsibilities and the period of responsibilities and the period of

responsibilities and the period of still greater prosperity which he pre-dicted for the future. As a member of the Markets Com-mittee, President Flatt was sorry to report that the sale of 66 heifers abip-ped to British Columbia could not be ped to British Columbia could not be considered a success, due possibly to the fact that it was a cash sale and money none too plentiful. At all of the fairs of the past year, the presi-dent averred, the breed had never been so well represented. The num-previous year and the number of new exhibitors was large. Much credit for the showing at Toronto he attributed the showing at Toronto he attributed to the Association's representative, Mr. R. F. Hicks. Referring to the prize list at Toronto, however, Mr.

prize list at Toronto, however, Mr. Flatt said: "When carefully examining the prize list of the Canadian National Exhibition, I was surprised to find that. Toronto had eiven to our breed of cattle \$1.316, and to the Shorborn-horas than to found that the Hol-little further, this year exceeded those of the Shorthorns by 156." Two rea-years were advanced as explaining this of the Shorthorns by 156." Two rea-soms were advanced as explaining this discrepancy. The Association's grant to the Canadian National is only one-quarter of the amount given by the Shorthorn Association, and secondly, on the board of that exhibition there are four Shorthorn men and not, one ablatics obte the grant to use exhibi-Holstein breeder. The President's advice that the grant to the exhibi-tion be increased was later acted upon.

As is usual in the presidential address, the superior merits of the Holstein breed received due considera-tion. Seven of the leading Holsteins and seven of the best cows of all other and seven of the best cows of all other increds, entered in the Guelph Dairy. Test, were compared, and it was found that in the three daws the Hol-teins had given 343 pounds more milk and the average test of this milk was only a fraction under four per competitors was \$7.28, which, if car-ried on for a year at the same rate, would put the Holsteins ahead of their seven nearest competitions \$880. or would put the Holsteins ahead of their seven nearest competitors \$898, or \$136 per row. He closed by advising the association, because of the uncer-tainty of the future owing to war conditions, to go as catulously as pos-sible in the matter of expenditure. The Secretary 8 Report Secretary 8 Report Secretary 6. W. Clemons had a re-cord of mograes to relate. The num-ber of registrations has increased follow on per cent over lat year, and

fully 20 per cent. over last year, and for the first time the association has reached the 10,000 mark. The num-

PTIMISM was the prevailing sen- ber of transfers was larger, totalling timent of the 33rd annual meet-7,800. The number of new members ing of the Holstein-Friesian was 3322, a very gratifying increase, or attransfer of Canada, held in To-aithough slightly below that of last on Thursday of last week. In year. There was also a failing of e of the disturbances caused by a in the amount of twist as a similar of advide way and the curtainment of shift or, to send extent, 10th he decreased amount of prize money offer-ed by the association. During the year, certificates were issued for 874 tests made under Record of Merit rules and several new records have been made.

February 10, 1916

The new Canadian champions The new Canadian Champions in the seven-day classes are: Belle Model Johanna 2nd, 37.01 pounds of butter; Pietje Pauline Hengerveld, sr. three-year-old, 31.78, and Belle Dutter; Freije Fraume neagetvelo, sr. three-year-old, 31.78, and Belle DeKol Pietje, jr. two-year-old, 37.49. The new Canadian champious in the 30-day classes are: Belle Model Jo-hanna 2nd, 148-4 pounds butter; IMay Echo Sylvia, sr. four-year-old, 143.21: Francy Belle Wayne, sr. three-year-old, 117-86, and Colantha Butter Girl, sr. two-year-old, 104.06. Miss Gussie Pontiac Korndyke, jr. four-year-old, is the only new champion in the eight months' after calving class, with 18.60 pounds of butter. In the Record of Performance, 190 cows gualified, bringing the number up to 826, and six bulls, bringing the num-ber up to 20. ber up to 29

The secretary reported that Vol-ume 19 of the year book would be ume 19 of the year book would be ready for distribution in May. Speak-ing for the literary committee, Mr. Clemons stated that several thousand pamphlets in English had been dis-tributed among likely buyers and that tributed among likely buyers and that the same service had been carried to the French-Canadian farmers in their language. Special articles and asso-ciation advertising had been appear-ing in the agricultural press. The Markets Committee, he stated, had Evaluation and the for Holstein-after the war, but so far had found little encouragement in that direction. after the war, but so far had found little encouragement in that direction. The dairy tests of the year in con-nection, with Winter Fairs had uni-versally yielded a Holstein champion. A detailed report of registrations and

of the auditor's report follows: Detailed Report of Registrations. Total number of animals registered in 1995 Registry of animals under one year 10260 (members) Registry of aniamis under one year non-members) Registry of animals over one year (members) (members) Registry of animals over one year Registry of animals over one years (non-members). Re-Registry of Canadian bred ani-Duplicate cortificates of registry. Certificates of transform. Import certificates (cows). Transfers (non-members). Auditors' Report for 1915.

Auditory' Report for 1915. Receipta: Baiance on hand Dec. 34, 1914 (\$ 1006)7 Registry and transfer fees 1977.1 Membership fees 1978.2 Sooks sold (\$ 2008) Over-payments (\$ 2008) Dords sold (\$ 2008) Dords sold (\$ 2008) Daterest on bank account. 4.3 Interest on bank account. 4.08 Interest on Sterios bonds 2008 Interest on Waterloo bonds 2008 Interest on Waterloo bonds 2008 Interest on Waterloo bonds 2008 821671.12

Printing account \$
Record of Merit prizes
Grants to Fairs and Dairy Tests
Salaries, office staff and auditors.
Postage
Expenses officers and delegates
Refunds
Office furniture and supplies
Expenses Branch Associations
Banquet expenses
Reteste
Advertising

Februa

Expenses of Grant to L Associatio Sundries . Bal. on ha

Statem

Balance or Kenora bor Fernie bor Waterloo b Safe and t Office equi Yault Herd book

The bu pedited b dent. Fir the floor ject, and nounce hi up. meeting h were read empowere this at th can associ as if they marked th meeting 1 was then ing a con Hicks, M. D. C. Flat increased ciation on motions w tion: An Canadian grant to same; th associatio breeder s after Mar has got n changing the breed

recommen

Mr. R.

tion of th to the C. tached th the tair b money ri pointed of last year beef bree only 13 c breeds con of the ca one-sixth horns rece or \$25 per received \$ a result home from a cent of of type is Holstein 1 Hicks co grant be tion to the be additio and "high Laidlaw ing that l'oronto breed that and deser M. Holth teur exhilt ing out r gave noti move that Ottawa ar onto, He the meetin H. H. Cra riculture tem to be whereby their size the numb After son motion ca moved, an ed the n grants ren

8069

1208

643

147

123

908 1178

124

16

alling

rease, f last g off posoffer g the or 874 Merit

have

ns in Belle ids of Belle 27.43. in the el Jo-; May 41.21; -year-Gussie ar-old, in the class In the COWS up to numŧ Val uld be Speak-e, Mr. ousand en dis-nd that ried to n their d assoappear-The d, had ities of olsteins found rection in conmnion ons and

10260

8065

1208 843

147

123

.\$ 1068.17 . 15791.15 . 1610.00 . 1835.00 . 240.50 . 436.45 . 43.15 . 200.00 . 2204.75 k 3.00

821672.12

\$6623.85 1610.00 3365.00

618.30 436.45 160.13 570.46 120.50 608.05 366.54

at, the nbers

bd

Sundries Bal. on hand Dec. 31, 1915

Statement of Assets and Liabilities

100.00 213.05 1597.94

\$21672.18

February 10, 1016

Office equipment Herd books and Year books 600.00 £18596 18

Linhilities_None General Business

The business of the day was expedited by two rulings of the presi-dent. First, that no man should take the floor more than once on one subthe noor more than once on one sub-ject, and secondly, that he should an-nounce his name as soon as he got up. The minutes of an executive meeting held on September 3rd, 1915, were read, at which the secretary was were read, at which the secretary was empowered to give export certificates, this at the request of the South Afri-can association: "which makes it look as if they might want our cows." re-marked the secretary. The executive meeting held the previous afternoon was then reported on. At that meeting a committee consisting of R. F. Hicks, M. L. Haley, B. Mallory and D. C. Flatt, was appointed to work for D. C. Flatt, was appointed to work for increased representation for the asso-ciation on fair boards. The following motions were recommended for adopmotions were recommended for adop-tion: An increase of the grant to the Canadian National for \$1,000, the grant to other fairs remaining the association remain the same: that no breeder get over \$25 prize money from the association in 1046, and that after March 1st, 1916, no breeder who has got money in the past should get more money. The notices of motions changing the order sequences and the same secchanging the color requirements of the breed and rules on retests were recommended for adoption.

Mr. R. F. Hicks moved the ador Mr. K. F. Micks moved the adop-tion of the resolution granting \$1,000 to the C.N.E., a condition being at-tached that the moneys granted by the iair board should be equal to the money given to any other breed. He pointed out that Holsteins at Toronto money given to any other breed. He pointed out that Holsteins at Toronto last year exceeded the entries of all beef breeds combined. and lacked only 13 of equaling all other dairy breeds combined. They had one-third of the cattle exhibited, and got only one-sixth of the prize money. Short-horms received \$5,065 in prize money. or \$20 per entry, while the Holsteins received \$15.71, or \$6 an entry. As a result 180 some odd cattle went home from Toronto last year without a cent of prize money. As the value of type is now being considered by Holstein men as well as records, Mr. Hicks considered it wise that the grant be increased, and that in addi-tion to the regular prize money, there be additional awards of "commended" and "highly commended." Mr. Geo. Laidlaw supported the motion, statand "bighly commended." Mr. Geo. Laidlaw supported the motion, stat-ing that the breeders who went to Toronto "did more to advertise the breed than those who stayed at home, and deserved some reward. Mr. R. M. Holltw suggested prizes to ama-teur exhibitors, as a means of bring-ing out new men. Mr. R. J. Kelly gave notice that next year he would move that greater grants be given to gave notice that next year he would move that greater grants be given to Ottawa and London, as well as Tor-onto. He regarded the motion before the meeting as unduly discriminating, H. H. Crair, Deputy Minister of Ag-riculture for Alberta, described a gys-tem to be advected to described a gystem to be adopted by Alberta fairs, whereby the number of prizes and their size is regulated according to the number of entries in each class. After some further discussion, the motion carried. Then Dr. English moved, and J. W. Richardson second-ed the motion, that all other fair grants remain the same.

FARM AND DAIRY

The executive's recommendation of The executive's recommendation of a change in the method of distribut-ing Record of Merit prize money did not meet with so favorable a recep-tion by the meeting. Among those objecting were R. J. Kelly, R. M. Holtby, Dr. Farewell, and A. C. Hardy. The change was urged on the ground of retrenching. The spheric of the dopinted out that the forame of the dopinted out that the ground of referencing. The standard meniomed polined out that good condition, and that it was test work above all other things that had given the Holstein breed its popular-ity. Both Mr. Hardy and Mr. Lippit considered it unvise to reduce the fees for testing, while at the same time the grants to fairs were being increased. Said Mr. A. C. Hardy: "It is putting the cart before the bhen. B. Make, M. C. G. A. Bre-hens. B. Make, M. C. G. A. Bre-hens. B. Make, M. C. G. A. Bre-hens. B. Make, M. C. Hardy: because they now realized its value, and they considered that the execu-tive's motion, which would cut off all and they considered that the execu-tive's motion, which would cut off all grants to previous winners after March 1st, 1916, would not have a noticeably detrimental effect on tsi-ing, and it would still offer encour-agement to beginners in the work. An agreement to beginners in the work. An amendment was first moved by Dr. Farewell that \$25 be awarded to a new man on his first cove tested and \$5 on others. This amendment fail-ing to receive a seconder, Mr. Bur-naby of Toronto moved that the rul-ing remain as it was in the past, which amendment was seconded by W. H. Cherry and carried

The remain as it was in the part, the control of the second by Wi-Carry under the second by Wi-Carry under the second by the meeting, and in lieu of the usual increase, Sec-cretary Clemons received an expres-sion of appreciation of his services from the members present. Expenses of the B. C. Sale Among the items of expenditure was one of \$429.45, the expense of the British Columbia sale. One mem-dent's ruling of announcing his item on the ground that the sale had been entered into, not so much by the Association as by individual mem-bers of the Association who had hopthe Association as by individual mem-bers of the Association who had hop-ed to profit hy the venture. As the experiment had turned out unprofi-able instead of profitable, he thought that they should bear their own loss instead of saddling part of it on the Association. He demanded to know where the executive committee had got their authority to spend over §400 on cataloging the entries and paying the expenses of one man to the sale. Secretary Clemons traced the author-ity of the Association in the manter ity of the Association in the matter to a somewhat loosely worded resolu-tion at the last annual meeting, giv-ing the Markets Committee authority to look up new markets, and the ship-

ing the Markets Committee authority to look up new markets, and the ship-ment of heifers to British Columbia was viewed in the light of a new market. This was in reply to W. H. Cherry, who said he understood that the consignors had to pay their own costs. Mr. Goo. Laidlaw, one of the consignors to the sale, said that their net receipts on six fine heifers, heavy W. T. Con Laidlaw, one of the Columbia, and pays thing for British Columbia, and pays thing for British Columbia, and pays thing for British Columbia, and the sale to the association would not be \$400, but \$4,000, as the heifers had been good ones and had done much to confute an idea that Ontario Holsteins were poit of the best quality, which pre-ious shipments of cull Holsteins to that province had included in the midds of British Columbia farmers. The action of the executive was fin-ally approved, and an additional grant was made of \$200 to Messrs. Ben & Laidlaw to commensate heat M. Laidlaw to commensate favorable reception of the succutive action along this line was due to the

prevailing feeling that the men who had consigned heifers had not doe so with hope of profit, but had taken to had consigned heifers had not doe so with hope of profit, but had taken to have the had been to had along risk for the benefit of their bed. A: he aftermoon session, H. H. Graig and S. J. Cariyle of Alberta vere given a few minutes to apeak for their province and bring to the parent Association the greetings of the Alberta breeders of black and whites. Both men expected that in the long run, Alberta will be one of held back because of the great num-bed of cull Holsteins that were ship-ded into the province in the last few years. For these two reasons Mr. Carlyle di not expect that there would be a very great demand for yure-bred Holstein stock for a few years. Mr. Craig reported splendid results from Alberta in making sil-are composed of corn with green oats or allalfa. The adoption of these as some for many do much to over-tone and oproviding suitable food Mr. J. W. Kickardson moved a minals with the following markings:

the debarrance of participation of the second secon

subject to retest : (Concluded on page 19)



A Real Spreader— Not Merely an Unloader.

The Massey-Harris No. 4 Low-Down Spreader spreads the load uniformly to a width of seven feet although the Bed measures only half that width. . The Divided Upper Beater is the explanation. -:- -:--:- -:--1-

Low-Down-Easy to Load.

The Low-Down Feature will be appreciated by the man who is using this Spreader. -:-

Light Draft-Easy on the Horses.

The simple, direct drive-the small size of the Beaters-the taper shape of the Bed-the Broad-Faced Wheels-the careful fitting of all parts-these combine to secure light draft.

Descriptive Booklet tells all about its many other Points of Superiority.

Massey-Harris Co., Limited. Head Offices-Toronto, Canada.

- Canadian Branches at -Montreal, Moncton, Winnipeg, Regina. Saskatoon, Swift Current, Yerkton, Calgary, Edmonton. E. G. Prior & Co., Ltd., Victoria, Vancouver, Kamloops. - Agencies Everywhere -

125

126

FARM AND DAIRY



3T is by attempting to reach the top at a single leap, that so much misery is caused in the world. -Cohhett

The Messenger Maid BY HELEN WALLACE

(Continued from last week.)

"Y^{GU} remind me of that!" flash-ed out the girl. "For my ed out the girl. "For my mother's sake I would give you gratitude-oh, so fully, so gladly, but to strike a bargain-to buy me with your bounty and then talk to me of your love! Love!" with fierce of your love! Love!" with fierce scorn. "If you had a spark of com-

"Gratitude-generosity-pshaw! We needn't bandy words. All's fair in love and war." said the man with a laugh. "You know I love you."

laugh. "You know I love you." "God keep me from such love, then!" broke in the girl's voice, the intensity of her emotion only height-ened by her low, guarded tone. "I was a child—I did not understand, but I see it all now. You have separ-ated us from all our friends. You took a cruel advantage of my poor mother's Yes, now that you know, what

then? "I will find means to support my

mother myself, though I starve for it," proudly.

"Maybe, but you won't want to" starve her, and starve yourself at the last," brutally. "No, no, this is sheer waste of words. Your mother wishes it, as if with her last breath. I want Want you! I've waited for you YOU. for years, for more than half your life. Am I to let the flower I've watched Am I to let the nower i ve watched so long be plucked by another hand?" The man's voice deepened to a note of strained, hoarse passion. "Do you think you can escape me-you, a girl alone, fri strangers? friendless, penniless among You're mine-mine-

Behind the pillar Maitland stood irresolute. At first he had heard the voices as if they were part of the half dream into which he had sunk, then he made the unwilling listener's usual mistake of delaying too long to make his presence known. But at those last words, at the girl's faint gasping cry, his hesitation was at an end. He must stop this, come what might.

With as casual an a'r as he could, he strolled round the pillar. For an instant both speakers stared at him in blank surprise, then seizing the mo-ment, the girl wrenched herself from the grasp the man had laid upon her arm, and sped away down the long aisle, not so swiftly, though, but that Maitland caught a glimpse of the pale, pure oval of her face, and of great dark eyes dilated with wrath and dread. With one careless, contemptuous glance at her companion, a stout, elderly, gross-looking man, he followed her down the nave. Where had he seen that face before? It seemed cur-iously familiar, it recalled some in-sistent memory-but what?

As he stepped out into the sunshine of the square, his foot struck against something soft. He stooped and lifted a little packet, which unrolled itself in his hand. Then he stood staring. Of all things in the world it was a sampler! A sampler?—it was the very one he had been dreaming of! There was the quaint, steep-roofed house, the stiff trees, the doggerel lines, "Isabel Calder is my name." Little Isabel—no wonder her face had touched a vibrant chord. He had found her, then, and found her help-

He had lost sight of Isabel, but no her deliverer who had stepped into her matter! He would soon find her now. life as suddenly, as amazingly as the Then his heart leaped, for there she gay young gallant had appeared from her deliverer who had support new me-life as suddenly, as amazingly as the gay young gallant had appeared from backing the golden stag. The vague gay young gainant had appeared from behind the golden stag. The vague dreams she had half-consciously woven around him since that unforgotten mowas, coming towards him, her eyes on the ground, 'evidently seeking for the lost sampler. With one stride he was at her side.

"May I remind Miss Isabel Calder of an old friend and an old debtor, whom I hope she hasn't quite forgotten.

gotten." The girl started round. The pallor of her face was drowned in a sweet, sudden flush, the trouble in her eyes gave place to joyful wonder. "You!" sub a uttered under her breach, as if the word had escaped without her knowledge. Then her face changed pitfully. 'It was you, the resent the pillar? You heard?"

she gasped. "Yes, I heard, and thank God I did. I know now why I sought my little friend in vain," said Maitland in a shaken voice

That sweet flush, the glad uncor scious welcome of her eyes had opened scious welcome of her eyes had opened the flood-gates within. The tender twilight memories of his child-deliverer, which had been hovering in h's mind, now flamed at the sight of this fair and gracious girl into the glowing dawn of new-born passion, and all his being rose up to greet her.

He knew his own heart now. "Here, by God's rood, is the one maid for me," he, too, might have said if he could have put the tumult of his feelings into words. "You haven't forgotten the gilded

room and the door behind the stag, have you, Isabel?" he went on, his



A Spacious Verandah Is One of the Commendable Features of This Home Mr. W. F. W. Fisher, fruit grower and farmer, has a beautiful home, as the illus-tration herewith abundantly testifies. Such a big verandah and well arranged grounds would make any country home attractive. This one is in Haiton Co., Ont.

less, bullied by that old hound! wave of unspeakable emotion surged up within him.

Your pardon, sir," said a voice behind, quivering with rage, but curb-ed to half incoherent courtesy. "That belongs to a lady—a friend of mine." "That Maitland faced round upon the speaker, and with the clue now sup-

plied, recognition dawned again "The lady, I find, is an old friend of mine, too, Major Walsh. I shall restore her property to her myself. She is no longer 'alone, friendless, s among strangers." I am Nigel Maitland, whose acquaintance you were once very desirous to make. If you are still of the same mind, I am very much at your service," his hand instinctively grasping his sword-hilt, while he gazed steadily into the blood shot eyes.

Walsh's eyes fell. He backed into the crowd. Perhaps he" felt that his game was played out. Anyhow he knew himself to be no match now for the tall, athletic figure before him. Maitland turned away with a laugh.

voice thrilling. "I said then that some day I might be able to deliver you from Walsh. I little thought it could ever come true. The scoundrel won't trouble you again, but that's won't trouble you again, but now; I'm going back to old Scotland-back 20 Ledington. Come with me, Isabel, come and make a home of an empty house. Your mother was a dear and good friend long ago. With your heip she gave me mv life. I think she won't grudge me now what would be dearer to me than life. She ways air with us. Her own land, her own air with airs her new life. Why should you linger here among strangers, when a home and a heart are waiting for you? Will you take them, Isabel? Will you come with me-will you?'

With his hands clasping hers, his eyes holding hers, the girl was swept away on the glowing flood of his pasaway on the glowing nood of his pas-sion. If it was a hasty wooing there was no doubt of its utter sincerity, and after the long horror of her struggle with Walsh it was little wonder if Isabel yielded to it, and hailed February 10, 1016

******** The Up Travel S

when hope had been at its lowest ebb her Prince Charming had come to the rescue. A new world opened to her, rescue. A new world opened to ne., as under the silken leaves of the young lime trees they wandered on, Nigel urging, persuading, pleading. Time seemed to stand still, the sunset was painting the western sky, when at last

Jabel said shyly: "I knew you, of course. It was little wonder I did, but how did you know

ment had become bewilderingly true :

wonder I did, but how did you know me? I was only a child then." Nigel laughed happily. "I wish I could say, too, that I had known you at once. I should very soon have known you, for the sight of your face knoeked at my heart, but I couldn't doubt when I sound this," and he drew out the sampler. "What happy chance made you carry it with you to isable hole charged what is by at the sight only charged what is by at the sight of the sampler at the couthe sight of the sampler, at the conbetween the miserable then, when trast she had snatched it up in an agony of despair, and this blissful, wonderful now

"It was no happy chance, but a very forlorn hope," she said in a low voice. "The housewives set great store by needlework here. I thought if I took it to a shop I know-if it were seensomeone might employ me—I might earn my mother's bread and my own; his was prisoning me." she shuddered his was poisoning me," she sh Nigel drew a long breath.

"Thank God, that's over," he said, as he gen-

God, that's over," he said, as he gen-tly drew her nearer to him. "Listen to the bells!" cried Nigel gaily, with a jerk of his shoulders as if he were easting dark days and dark memories behind him. "Please God, we'll soon be hearing the old-bell of Ledington kirk, and though it's crack-ed enough, it'll make better music than Antwerp chimes, for it'll be ringing in our wedding day and our wel-come home."-The Girl's Realm.

. . . Brighten the Kitchen

By Mary L. Oberlin. NE wonders at the housekeepers O who chose for their kitchen walls and woodwork a dingy grey or brown or some other dark, dull color that will not show the dirt. Are they better housekeepers because the dirt, which is surely there, does not show? Would these same women wear black dressess and ap.ons when doing the cooking and feel that they were clean because they did not look soiled?

The kitchen should be the cleanest, sunniest, and most cheerful room in the house. It is here the housekeeper spends most of her time, and it is here the food is prepared and often served.

It is not always possible to have the kitchen located so as to get the best light, but a dark room may be much improved by using the proper In a Minnesota town the colors. school kitchen had windows on the east side only. Half of them were on a court and the others against a hill; but the use of a deep cream tint on the ceiling, a buff for the walls, and woodwork of southern pine finished in the natural color and varnished, the effect of sunshine was given even on the dull, short days of the northern winter.

If there is much sunshine in the kitchen white or blue may be used; but on the north side of the house use buff or warm, yellowish tan. The increased cheerfulness and better spirits of the housekeeper will mean much to the entire family, and her work will not be increased by the new color scheme because a sunny, pleasant workshop lightens every task

February 10

The Infinite

"THE Lor my life Two fe joyed at the Sar

were the grace and the strong Among the late ite was "The l presenting an One could but feeling, such u haustion could mate material. piece of statua meant failure

But my own Christ, which day in a corn building as I v way to our ow I was so spell-h characteristics and attitude, th the closing hou our exhibit unti

In that Chris ite sorrow, infin but what impre of these was th seems very str. was the first "strength" in our Saviour. T been already, a source of help.

We are so ac the loving side that not near, strong, manly, that strength in weakness. He stands. He end in the wilderne strength in the spiritual weakn and depression,

of great tempta A celebrated picture he had p friend to ask h latter's only ren not love your Sa of that Christ s his Master, or h ceived and exe spiring work .--

-8 The M "HE castern

mon and w ring from the Great Plains to the closely re which extends th Pacific. It wint ern border as i trict of Columb and occasionally form winters son Although it is and finds its m in the prairies home wherever dulating land c

weeds, with plen In the 1,514 animal food (p) constituted 74 p tents, and veget cent. As would posed, the in species, as beet pers and cater flies, wasps and ber of the stom when the groun snow, but even large percentage the bird's skill food under adver

February 10, 1916

the

gue

mo

the

ler.

ing izel

ime was aut

mon

1 1 rou

ace

n't

py

nt

on-

ien

no.

ok

tht

nk

n.

zel

rd

g-

n

z

re

The Upward Look Travel Series-No. 19

The Infinite Strength of Christ

the humits overgin of carse of THE Lord is the strength of the my life."-Psalm 27, 1. Two features particularly en-joyed at the San Francisco Exposition were the graceful, intriate carring and the strong, expressive statuary. Among the latter; the general favor-tie was "The End of the Trail." re-presenting an Indian and his pony. One could but wonder how so much ching unch utter wastress and exfeeling, such utter weariness and ex-haustion could be expressed in inani-mate material. Some claimed this piece of statuary was typical of the last of the Indian race; others that it eant failure to realize one's own highest ideals.

But my own favorite was one of Christ, which I happened upon one day in a corner behind the Italian building as I was trying to find my way to our own Canadian building. I was so spell-bound with the Christ-I was so spendound with the Christ-characteristics depicted in expression and attitude, that I forgot all about the closing hour, and so had to leave our exhibit until the next day. In that Christ-face there was infin-

ite sorrow, infinite pity, infinite love, but what impressed me more than all of these was the infinite strength. It seems very strange to me, but this seems very strange to me, but this was the first time I had found "strength" in the representations of our Saviour. The memory of this has been already, and will always be, a source of help.

We are so accustomed to think of le loving side of Christ's nature. the loving side of Christ's nature, that not nearly enough are the strong, manly, virile characteristics presented. We need the thought of that strength in the face of physical weakness. He knows, He underthat strength in the face of physicas weakness. He knows, He under-stands. He endured those long days in the wilderness. We need that strength in the hour of mental and spiritual weakness, of despondency and depression, of doubting despair, of great temptation.

of great temptation. A celebrated artist once brought a picture he had painted of Christ, to a friend to ask his opinion of it. The latter's only remark was, "You canfriend to ask his opinion of it. The latter's only remark was, "You can-not love your Saviour." The sculptor of that Christ statue must have loved his Master, or he would not have con-ceived and executed that great, in-spiring work.--I.H.N.

...

The Meadowlarks

"HE eastern meadowlark is a common and well-known bit occur-ring from the Atlantic coast to the Great Plains, where it gives away to the closely related western species, which extends thence westward to the parise. which extends thence westward to the Practic. It winters from our south-ern border as far north as the dis-triet of Columbia, southern Illinois, and occasionally lowa. The western form winters somewhat farther north, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and find; it is a bird of the plains, and the plain of the plain of the plains, and the plain of the plain of the plain of the plains, and the plain of the plain of the plain of the plains, and the plain of the plain of the plain of the plains, and the plain of the

home wherever there is level or un-dulating land covered with grass or weeds, with plenty of water at hand. In the 1,014 stomaches examined, animal food- (practically all insects) constituted 74 per cent of the con-tents, and vegetable matter, 96 per cent. As would naturally be sup-posed, the insects were ground species, as beetles, bugs, grasshop-pers and caterpailars, with a few flies, wasps and spiders. A num-ber of the stomachs were collected when the ground was covered with when the ground was covered with snow, but even these contained a large percentage of insects, showing the bird's skill in finding proper food under adverse circumstances.

Of the various insects eaten, crick-ets and grasshoppers are the most important, constituting 28 per cent of the food of the year and 72 per cent of the food in August. It is cent of the food in August. It is scarcely necessary to mention the beneficial effect of a number of these birds on a field of grass in the height of the grasshopper season. Of the 1,514 stomachs collected at all seasons of the year, 778, or more than half, contained remains of grasshop-pers, and one was filled with frag-ments of 37 of these insects. This seems to show conclusively that grass-hoppers are preferred, and are caten whenever they can be found. Next to grasshoppers. beetles make

Mext to grasshoppers, beetles make up the most important item of the meadowlark's food, amounting to 25 per cent, about one-half of which are predacious ground beetles. The predacious ground beetles. others are all harmful species.



Forty-two individuals of different kinds of May beetles were found in the stomachs of meadowlarks, and there were probably many more which were past recognition. To this form and several closely allied ones be-long the numerous white arches long the numerous white grubs, which are among the worst enemies to many cultivated crops, notably grasses and grains, and to a less ex-tent strawberries and garden vegetables.

Among the weevils found in the stomachs the most important econo-mically are the cotton-boll weevil and the recently introduced alfalfa weevil of Utah.

of Utah. Caterpillars form a very constant element of the food, and in May con-stitute over 24 per cent of the whole. May is the month when the dreaded cutworm begins its deadly career, and the dread some of its best cutworm begins its deadly career, and then the lark does some of its best work. Most of these caterpillars are ground feeders, and overlooked by birds which habitually frequent trees, but the meadowlark finds and de-yours them by thousands. The re-maindent by thousands. The remainder of the insect food is made up of ants, wasps and spiders, with grain and weed and other hard seeds. some bugs, including chinch bugs, and a few scales.

Weite

The vegetable food consists of grain in general amounts to 11 per cent and weed and other seeds to seven per cent.

cent and weeu and other seems to seven per cent. Briefly stated, more than half of the meadowlark's food consists of harmful insects; its wegetable food is composed either of noxious weeds or waste grain, and the remainder is made up of useful beetles on neutral insects and spiders. A strong point is made up of useful beetles or neutral insecties and spiders. A strong point in the bird's favor is that, although naturally an insect eater, it is able to subsito no vegetable food, and consequently is not forced to migrate in cold weather farther than is ne-cessary to find ground free from snow.

. . A Score Card for Bread

A score Card for Bread I would be a good plan for house-keepers to score their bread, sur-rests Miss Nola K. Fromme, of the State College home economics de-partment. Following a score card would scon bring up the standard. The following card is recommended by ber: by her:

Total100 Flavor is most important, for the value of bread depends largely upon its taste. The bread should be light through

out, determined largely by use of the proper amount of yeast, and allowing bread to rise the proper length of time (until it just doubles its bulk). Grain and texture are decided largely by the kneading which evenly

distributes the yeast, thus ensuring a fine even grain.

The crumb should be creamy white. not dingy and grey, and should be moist and elastic, with no doughi-

The crust should be thin, golden

The crust should be thin, golden brown and flaky. The loaf should not be too large to bake well in the centre. A moder-adely stiff dough in an oven neither too hot nor too slow should give good result. results. . . .

Some people with very delicate stom-achs cannot eat eggs, but it is the yolk which disagrees, so they can use the white without harm. Mention Parm and Dairy when writing.

127

Fertilizer Quality

When you buy fertilizer remember you are buying what is in the goods and not merely a weight of two thousand pounds.

When a smelter buys gold ore he buys not merely two thousand pounds but he insists on knowing how much gold is in the ore, and you should know the amount of active nitrogen, which is the gold of the fertilizer.

For further information write

DR. WILLIAM S. MYERS, Firector 25 Madison Avenue, New York



Mention Farm and Dairy when writing

Empire SUPPLY System

Every Modern Convenience in the Farm Home **Running Water for Every Farm Need**

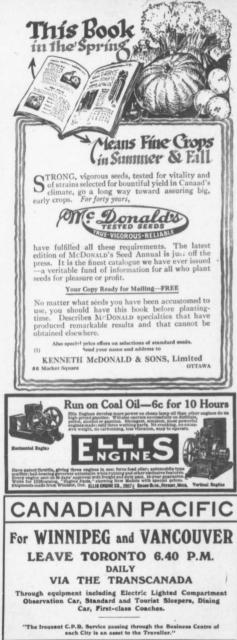
Why not provide your farm home with just as good conveniences as any city house? If can easily be done at most moderate cost, and it will not only provide greater comfort for your family and lighten burdens, but will increase the value of your property as well. Just think of a strictly modern bathroom with all fittings--running hot and cold water in the kitchen and other parts of the house, in the barn and outbuildings. Do away with the old, unhealthy, inconvenient outdoor cesspool and water-ingains methods.

SEND FOR FREE BOOKLET TO-DAY

-describing the EMPIRE SYSTEM. Write us your requirements, and we will send you full particulars and the cost of a system adapted to your par-ticular needs.

Outfit includes bathroom fittings, kitchen sink and hot water boiler for range, Pneumatic Pressure plant and all piping complete. Prices, 8220 or more for extra fittings. NOW is a good time to find out about it. Let us send you a free estimate.

EMPIRE MANUFACTURING CO., Limited East London, Ontario



128

(16)

Particulars from Canadian Pacific Ticket Agent, or write W. B. Howard, D.P.A., Toronto

OUR HOME CLUB kettles from a neighbor, but the save that money she did the work save that money she did the work The Lighting of the Home

Y father was one of the first to install an acetylene lighting system in our neighborhood. Acetylene lighting was then a new thing and the plant was crude and never gave entire satisfaction. The never gave entire satisfaction. The old folks were still worrying over it when I married and moved to town, where the electric lights never gave any bother. My husband, however, is a country bred man, and we both soon tired of the artificiality of city life. Soon after we decided to move back to the country, we found a farm to suit us with a house on it sub-stantially built but lacking in every modern convenience. It had to be remodelled

We first installed running water and bathroom conveniences. That was simple. There are several good improved systems on the market and and improved systems on the market suitable to the farm. It was the lighting of our home that worried me. I did not want to go back to coal oil lamps and I never gave accivience a thought on account of the difficulties that we had had with it in the old home. When visiting a neighbor a few weeks after our re-moval to the farm, however, we got our eyes opened to the acetylene sys-

tem as it is to day. The system as our neighbor had it installed and as we now have it, lacks nothing in convenience as com-pared with the electric light. The turning on of the light in a room requires nothing more than the push-ing of a button in the wall. We can turn on the lights upstairs by a button on the lower landing. Similar button on the lower landing, Similar-ly we can light the cellar ahead of us and a light on the front porch is switched on from a button in the front hall. The ignition of the acctyiene gas is made not with a, match, but by an electric spark gen-crated by dry batteries. We found our system somewhat expensive to install, but for convenience and satis-faction the best electric lighting sys-tem cannot excell it.—"A Farmeress."

. . .

Domestic Martyrs

SUBJECT that never seems to grow old in the farm magazines is the one which deals with the hard life of the farmer's wife. Writers wax eloquent as they expound on the thoughtlessness of the husband and boys of the family in allowing the wife and mother to go on year after year, using inconvenient articles with which to do her housework, working in a poorly laid-out house, etc., etc I don't know how others enjoy read-ing such tales of woe, but for my part, I grow rather weary over them I may be wrong in my conclusions, and if so would be glad if someone would set me right, but I am strongly inclined to believe that half of the tribulations of the farm wife are really centred in herself. We hear much about care of farm stock, implements, crops and everything that plements, crops and everything that pertains to the money-making end of the farm. The wife is quite as de-sirous of being careful of the farm equipment as is her husband, but when it comes to being careful of herself, she seems to forget that she is of more value than all the farm

is of more value than all the tarm equipment put together. Recently I came across some inci-dents in a periodical which I picked up, that illustrate my point admirably, so I will mention one or two here. A misguided woman actually boasted that she tried out all the lard from six fat hogs on the kitchen stove, getting done in exactly one week. They could have rented

yet these people owned 400 acres of land

land. Another instance was that of a family who had two old-fashioned pumps exactly alike, one at the barn and one at the house. The handle of the barn pump got broken, so the men took the handle from the other pump. For years the wife walked to the barn for that pump handle every time abe wanted a pull of water and time she wanted a pail of water and then returned it to the barn pump in order to save the men's time.

Another woman made all the sausage at butchering time with a little old hand grinder. It was such a crude machine that by hard work it was possible to make 10 or 15 gounds of sausage in an afternoon. save hiring an up-to-date outfit, work was done with woman power in the kitchen.

It seems to me that if we women are not careful of ourselves and that we cannot expect the men to be either, for so long as we continue to do our work uncomplainingly, the men-folk as a rule do not realize under what unsatisfactory conditions struggling along. Would we are Would it strugging atong. Would it not be far better for us to assert our rights, but of course in a tactful way, talk the matter over intelligently, and in the majority of cases. I believe, "hubby" will see our point of view, I claim that it doesn't now to be "hubby" will see our point of view. I claim that it doesn't pay to be "domestic martyrs." What do other Home Club members think about it? ---"Aunt Flossie."

. . .

Pork on the Bill of Fare

rOW is the time of year when N pork appears on our menu fre-quently. As pork is usually eaten heartily by almost all members of the family, and as it is a meat that is rather hard to digest, especially if improperly cooked, a recent bulletin on the subject of cooking pork should prove valuable to us at this time. Some of the information contained in this bulletin is as follows:

"There is always the possibility that illness may follow the eating of pork that is raw or not thoroughly pork that is raw or not thoroughly cooked. The danger is greatest at this season of the year when many people prepare for home consumption var-ious food products that are custom-arily eaten without cooking. More of these home-made products are pre-pared at hog-killing time on the farm these to here other time. than at any other time.

"American people as a rule prefer oked pork, but there are many who, cooked pork, but there are many woo, perhaps unknowingly, consume pork in an uncooked condition, either in the form of raw ham or uncooked suusages. In many localities consider-aile amounts of these products are ma'se up and consumed at home, or distrivuted through the neighbor-hood. Large quantities of pork hood. Large quantities of pork products intended to be eaten raw are also prepared commercially.

"The disease known as trichinosis which may result from eating raw pork, is caused by certain round-worms, called trichinae. These are microscopic in size and infest the flesh of hogs.

"To avoid trichinosis, no form of pork in the raw state, including dried pork in the raw state, including dried or smoked sausages and hams, should be eaten. All porks used as food should be cooked thoroughly. If this is done the value and wholesomeness of the meat for food purposes is not impaired by the fact that the parasites were present in it.

"A practical rule for cooking pork A practical rule for cooking port is to cook it until it has lost its red color throughout all portions, or if a trace of this color is still present at least until the fluids of the meat have become more or less jellied." called attention to the war in of food stuffs h ed. He conten patriotic a du farms as they list. In this c warned fammer their efforts to creased produc creased expens part to the ex who take every the farmer. F lose their busi be patriotic.

The Fai

Attention was it is not alway patriotism the most patriotic. front, spoon fe expense of agr increased tari petition, the s farm help, and access to open for farmer tail their obliga expenses, and i use of existing and selling coo

Mr. Halbert the excellent wo United Farmers said that the f higher ideal in making They should n they place the ture on a level sions. The far whose hands a or trusts, and shut and padloc ical to those of

Secret Sec. J. J. Mon spite of many gress had been tion during the organizations h list, 50 of which U.F.O. and 30 ers' clubs and farmers' clubs taken stock in

Company. The U.F.O. organizations, mately 5,000 me there were 32 f individuals that The United F Company, Ltd. 100 farmers' c with the coopera present not tied

except through "There are," "over 500 rural tions in Ontario them are willing capitation tax the industry. N of agriculture? give freely to th ciations, and se complished. Ou widened. Susp owness, and pa he curse of the ly be overcom

nfluences of or After the nat struction and anity is enthron art is agricultur e going to sub of taxation llow and will aded upon our present system? on we can lary pading of this the work And es of

of a ioned

harn dle of o the other red to

every r and mp in

the ith a such

work or 15

noon power

omen

d that either, lo our n-folk what are

ot be ights, , talk and in elieve,

iew, I to

other ut it?

re when u fre-eaten ers of

t that ally if ulletin

should

time. tained

sibility ing of oughly at this people

n var-

istom ore of e pre-e farm

prefer y who, e pork her in cooked nsider-

ts are

me, or ghbor-

pork pork n raw ly. hinosis

g raw round-se are

st the

arm of dried ahould

food If this

meness is not rasites

g pork its red or if a

ent, at

at have

of food stuffs has heen greatly curtail-ed. He contended that many of the farmers of Canada can perform as patriotic a duty in staying by their farms as they would were they to en-list. In this connection, however, he warned fasmers not to over-reach in their efforts to produce more, as in-creased production would mean in-mark to the exactions of middlemen, who take every opportunity to heled the farmer. Farmers do not need to lose their business sense in order to the farmer. Farmers do not need to lose their business sense in order to

be patriotic. Attention was called to the fact that it is not always the men who shout patriotism the loudest who are the most patriotic. Industries of minor importance have been helped to the importance have been helped to the front, spoon fed, and protected at the expense of agriculture, and with the present outlook for higher taxation, increased tariff protection for the manufacturers who are arraid of competition, the scarcity of capital and farm help, and denied, as farmers are, farm help, and denied, as farmers are, access to open markets, it was neces-sary for farmers to get together, cur-tail their obligations, keep down their expenses, and make the best possible use of existing markets by buying and selling cooperatively . Mr. Halbert referred with pride to

the excellent work being done by The United Farmers' Cooperative Co., but said that the farmers should have a higher ideal in uniting together than higher ideal in unting together than merely making dollars and cents. They should never be satisfied until they place the profession of agricul-ture on a level with all other profes-sions. The farmers need met to-day sions. The farmers need mer to-day whose hands are not tied by parties or trusts, and whose mouths are not shut and padlocked by interests inim-ical to those of the farmer. Secretary's Report

Secretary's Report Sec. J. I. Morrison reported that in spite of many difficulties much pro-gress had been made by the Associa-tion during the year. Eighty-two new organizations had been added to the list, 60 of which wgre-branches of the U.F.O. and 30 were affiliated fam-ers' clubs not yet affiliated fam-ers' clubs not yet affiliated fam-tark stock in The United Farmers' Compare.

taken stöck in The United Farmers Company. The U.F.O. was composed of 136 organizations, representing approxi-mately 5,000 members. Besides these there were 32 farmers' clubs and 40 individuals that had taken stock in Company. Lud. There were also over 100 farmers' clubs doing business with the cooperative company, but at present not tied to them in any way event through friendly intercourse. except through friendly intercourse. "There are," said Mr. Morrison, "over 500 rural agricultural organiza-

"over 500 rural agricultural organiza-tions in Ontario, yet only one-fith of them are willing to pay 50c per year capitation tax toward the uplit of the industry. Why should this be so of agriculture? All other industries give freely to their unions and assogive freely to their unions and asso-compliances, and see what they have ac-complished. Our viewpoint must be widened. Suspiciou, jealousy, nar-owness, and partizan tendencies are he curse of the rural people, and can only be overcome by the enlightening afluences of organization.

influences of organization. "After the nations become tired of destruction and the war ceases, when sanity is enthrong to play? Are we going to submit to the great bur-den of taation that inevitably mus-laded upon our industry under our present system? Through coopera-tion we can largely prevent the un-ton we can largely prevent the union we can largely prevent the un-oading of this burden upon those

Total receipts\$1283 65 Disbursements

\$ 707 23 Liabilities.

Directors' expenses unpaid .. \$ 40 55

Burford

Opening Proceedings

The Wednesday morning session was occupied with the appointment of committees and the discussion of proposed amendments to the consti-tution, Mr. J. J. Morrison moved that the constitution be amended so as to lessen the time required for sub-mitting reports to the branch asso-ciations. The constitution required clations. The constitution required that all reports should be mailed to the branch associations not later than one month prior to the opening of the convention, and should give a de-tailed statement of the receipts and expenditures, assets and liabilities. Mr. Morrison explained that many of the locals were slow in making their returns to the central, and as the books of the central could not be to not be the only the it was accounted. closed until the end of the year and closed until the end of the year and it took time to audit them, it was go-ing to be necessary, unless his amendment was adopted, to hold the annual meeting late in February. On motion of Mr. B. C. Tucker, of Har-old, seconded by Mr. J. H. Scott, of Dundalk, it was decided to amend the constitution so that the reports will have to be sent out only two weeks before the annual convention instead of one month as formerly. Delaytes From Locals The auditor of the Association, Mr. A. J. Reynolds, of Solina, mored an amendment to the constitution which had for its object the restric-tion of the number of delegates that could be sent to the convention by

could be sent to the convention by the locals. Hitherto, every local whose membership fees were paid to The logals. Hitherto, every local whose membership fees were paid to the central has had the privilege of sending one delegate for the first 10 or more members, and an additional delegate for every B or major por-bers could send one delegate of members, and send one delegate of the delegate, the one of the send one delegate, from 30 to 50 delegates, two members, and so on in the same proportion, the rail-way fares of whom would be paid by the Central. As auditor of the Association, Mr. Reynolds was afraid that if many of the local situated at points distant from Torono were to send delegates, the central would not be able to meet the expense involved from the fees secured. The amendment was referred to a special com-

The Farmers of Ontario are Well United (Continued Form page 6) and the contended that many of the particular difference of the contended that and the contended the particular difference of the contended that and the contended the particular difference of the contended that and the contended the particular difference of the contended that and the contended the conte a mistake was made in a manner not brought out at the convention. It is possible that the directors may have to revise this amendment before the next annual meeting, and leave it for the convention to ratify their action. Time of Meeting

Time of Meeting A proposed amendment to the con-stitution, moved by Mr. W. C. Good, which had for its object the giving to the directors of power to hold the annual convention at any time beive December 1 and April 1, instead of between December 1 and March 1, as at present, was not approved by the convention. Methods of Election

An amendment moved by Mr. Good providing for the method of electing officers and directors already explained in this report, was adopted and put into practice at the convention. • Carload Orders

 Carload Orders
 At the afternoon session, Wednes-day, Mr. Anson Groh, the president of the United Farmers' Cooperative Coo. Ltd., urged the local farmers' clubs to give carload orders for goods whenever possible. In some localities it would be possible for several clubs to unite in order that this might be done. The larger the order placed, the better the terms that could placed, the better the terms that could be obtained and the lower the freight rate. Generally, the freight rates when goods were shipped in carload lots were only about half or less of what they were when smaller ship-ments were sent. In many lines, the freight rates are practically prohibi-

tive when less than carload shipments are made. This is true of goods cheap in price and sold by the ton, When 50 automobiles can be shipped into a district, it is possible to buy them at avery low rate. Unless that number can be ordered, they cannot

humber can be ordered, they cannot be purchased at all. Agricultural implements can be purchased at a great reduction when orders can be massed. If the United Farmers' Company could fill one-tenth Farmers' Company could fill one-tenth of the orders given in the province each year for agricultural implements it would be able to cut the price of these implements in half. When the company sends small shipments its commission is little or no greater than that of the local agents, and when these agents cut their price it given its and the shipped directly from the refinery. Other instances were given of the benefits of order-ing in lis suggenantice. ing in large quantities. Taking Orders by Clubs

A thoroughly practical address was given by Mr. L. H. Blatchford, of Embro, the secretary of a successful farmers' club in Oxford county. Mr. Blatchford pointed out that the best way for a club to gain orders from its members was by first gaining the mon a cure as fain others inform their confidence. One poor shipment inght create dissatisfaction that it would take months to overcome. A low price on a good article always drew business. Mr. Blatchford told of efforts that had been made by wholesale firms to draw the business away from the central association in Toronto and emphasized the necessity of the locals standing by the central and recognizing that it is their com-dress will be published later. Financing the Lecals Much interest was taken in an ad-dress on how the local organizations (Concluded on page 20)

Public Issues as Viewed by Ontario Farmers

(Continued from page 2.)

(Continued from page 2.) That said committee shall concise-by report its findings and recommend⁵. This day of Celeber, 1916. That use its day of Celeber, 1916. Whereas, a large proportion of than the first day of Celeber, 1916. Whereas, a large proportion of our water powers have been practi-cally given away by the state, and sufficient number of copies of such ave passed into the hands of cor report printed as shall be necessary is supply each branch with one copy, and that such report shall be taken its next annual convention. The Juvenite Membership 7. We desire to direct the attention of the officers of all branches of the the officers of all branches of the our water powers have been practi-tized. Therefore, be it resolved, that we be officers of all branches of the our water powers the munder the re-outer that a bona file officer.

U.F.O. to the great need and advantages of encouraging the young people to become members, and to urge them to do everything within their power to secure and maintain this juvenile membership. (Carried.)

Other Resolutions

Other Resolutions The following resolutions were submitted, but owine to lack of time preventing their proper consideration in the second second second second their provisions could be more fully discussed. 1. Whereas, since the war started, the national debt of Canada has prac-tically doubled: and whereas, should be war continue another year, the debt will approximate one billion doi-lars; and whereas, the methods of taxation which have been employed in the past have not only resulted in a crippling of our primary industries. a crippling of our primary industries, but are totally inadequate to meet the requirements of the future, therefore, be it resolved, that we direct the attention of dur Government to the imperative necessity of devising other and radically different methods

powers to appraise them under the re-quirement that a bona fide offer, through the Government, of a 10 per cent. increase over the said appraisal shall ensure the sale of said water powers at the price offered, and that these powers be taxed on the said valuation in such manner as shall ensure their use for the benefit of the public, or their return to the state. (Submitted, but not adopted.) 3. Whereas, the increasing depopu-lation of our rural districts has made it difficult for them to maintain in the highest state of efficiency rural schools and other social institutions:

schools and other social institutions; and whereas, the tremendous increase of land values in our large urban centres has been one of the effects of the shifting of population from coun-try to city; and whereas, the threat-ened deterioration of rural social life ened deterioration of rural social life is a grave menace to our whole na-tion; therefore, be it resolved, that a uniform tax be placed by the province upon all land values, including rali-way rights of way, mining claims, timber fir. 's, water powers, and all public franchises, and that the money so collected be used for educational photogenel. [Submitted, but not adopted.)

120

in Denmark-

Notice the adjustable handle on the bow lever. No other churn has this. Handle can be moved to centre or either



Nova Scotia Farmers' Association

HE last week of January this as sociation held its annual meet-ing at Windsor. This is a repreing at Windsor. Inis is a repre-sentative body, composed of one dele-gate from each of the agricultural societies, two from each County Far-mers' Association, The Fruit Grow-Association and other similar ers'

After the usual addresses of welcome, and replies, on Tuesday even-ing came a very interesting lecture on "Methods of Improving the Potato Crop," by Prof. E. C. Cunningham, Dominion Plant Pathologist for New The main points were Brunswick. Seed selection, cultivation, and Bor-Seed selection, cultivation, and Bor-deaux spraving. Wednesday morn-ing was a business meeting. The report of the Exhibition Commission-ers brought forth some objections by members against 'be "Midway" and "fakirs' row," and later a resolution to do away with these features in thou future. On Wednesday by Dr. Sin-clin V.S., on "Horses," followed by clank years, on "Horses," followed by the subject of "Market Problems of Wednesday evening was given over

Wednesday evening was given over two addresses, the first a detail of to two addresses, the first a detail of "Limestone Experiments on the Col-lege Farm, Truro," by the manager, Prof. J. M. Trueman, and the se-cond, "How to Eradicate Club Root in Turnips and Cabbages," by Prof. Cunningham. These two addresses were in a manner complementary to each other. Not only was the markeach other. Not only was the mark-ed benefit of lime shown particularly in the increased crops of clover, but the ability with lime to combtat suc-cessfully the club root. An experiment of three years of continuous crop-pings of turnips on the same ground after working about three tons per after working about three tons per acce into the soil, showed in the suc-cessive vears 60 per cent., 17 per cent., and finally 0 per cent. of club root. A four-vear rotation, with lime added after the turnip crop would mean a soil for the next turnip crop lease form club root. free from club root.

Further Organization Discussed

On Thursday morning dame elec-on of officers. Following this a tion of officers. discussion upon cooperation, and a reorganization of our agricultural soeties upon an incorporated cooper-ive basis. The original scheme ative basis. proposed was to incorporate each agricultural society as a unit; then or-ganize an incorporated central farmassociation in each county comers' association in each county com-posed of one delegate from each so-ciety in the county: and possibly a Provincial society eventually, repre-sentative of the county societies. But ers many reasons appeared against this plan. The prevailing counsel was that wherever any locality seemed ripe for organization, probably the indi-viduals or many of them forming now viduals or many of them forming now an agricultural society, they need not seek any further legislation, but ra-ther orvanize under chapter 33 of the Acts of 1965: "Of Farmers' Fruit, Produce, and Warehouse Associa-tions." This Act has been tested and tried by the Fruit Companies of the Value. Under is an empiricipation Valley. Under it, an organization could confine its efforts merely to the an organization could confine its efforts merely to the purchase of fertilizer or feeds; or they could make cattle, sheep, milk, or garden produce their specialty. Messrs. McMahon and Adams, the general manager and the secretary of the United Fruit Companies, had been invited to attend this meeting, and coupled with much encouragement was the warning to go carefully in the organization work. Time taken and even a little money spent in getting good advice and assistance in organization would not be lost, but more than repaid.

This discussion on cooperation ran over into Thursday afternoon's ses-Resolutions were passed urg

ing upon the Government to close the saloons of Halifax and so bring the whole province under no-license; and in relation to pure-bred horses and in relation to pure-bred norses and cattle, to restrict the use of scrub sires. An address by Prof. J. M. Trueman on "Feeding Dairy Cattle: The Possibilities of O.P.V. Ensil-age." was the final feature of the convention.--H.P.B.

Feeding a Record Ayrshire

THE first Ayrshire cow to give over 25,000 pounds of milk in a year has come. She is Garclau_kh May Mischief, owned by Percival Roberts, Jr., Narberth, Pa. Her pro-duction is 25,328.7 pounds of milk, 64.9 pounds of far enuivalent cluction is 22,328.7 pounds of milk, 264.91 pounds of fat, equivalent to 1,602.83 pounds of commercial butter. One of the significant points about this record is that it was made under such conditions that the cow could qualify under the rules of the Cana-dian Record of Performance. Her test began December 37, 146, is due to the commercial the second of the December 36, is on March 3rd, 1910. Up for the second second second second the second second second second second second the second second second second second the second second second second second second second the second second second second second second second the second second second second second second the second second second second second second second the second second second second second second second the second second second second second second second test second second second second second second second second test second second second second second second second second test second second second second second second second second test second sec during her test and an estimate of the value of her milk production is as

follows:

837 lbs. linseed of \$37,40 per ton 15 65 cotton seed meal at 1066 lbs. 15 46 \$29.00 per ton

149 lbs. gluten at \$25.40 per 153 lbs. ajax at \$33.80 per ton 2 59



WANTED-Cheesemaker for Elmbank fas-tory for senson 1916. Make for 1915.ous 65 tons. Apply for particulars to Jame Cielland, Proprietor, Listowel, Out.

FREE to stockmen and poulty-men, car 80-page Illustration Construct a house which will accommode ID hens; gives dimensions, and measurement of every piece of kunther regularity. Dasks which remotions. Tells how to cure reap in face des. Contrains full information about Roval Rova Stock and Poultry foods and remedies. This W. A. Justeme Miro, C. Lombon, Cas



Garcla

668 lbs. beet p 112001bs. corn s ton 222331bs. beets

1874 lbs. alfalfa ton 906 lbs. mixed ton Green feed

25328 lbs. milk gts., sold cts. per qt.

Holste

Records of n butter-fat by ju lbs. by senior by junior three senior three-year ior four-year-old four-year-olds, a

The motion in Farm and Dair was seconded h

A. C. Hardy the secretary of acceptance of a gistry should be the executive, we ently have no p nition to any notice had been quisite 30 days, sible to have it ion to the mem agreed to let his for another year ed that in case member, the tra his legal heirs s but charge. As thange in the co ng decided that ver for another

Office

The election o uing year resul ident, M. L. rst vice-preside Caledonia: nt, Norman M Ita. : third angster, Ormst ice-president, D I.C. Directors hur Dickie, Co G. A. Breth d auditors, B. re reappointed. ered that offic iation was with Clemons was



They use Maxwell's Churns .

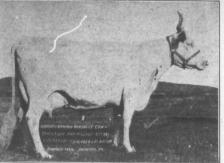
Fancy 1 Denmark-the great butter-producing country of the world-end all the way to Canada for Maxwell's Churnal Also used in Australia, New Zealand and S. Africa. Convincing proof, this, of the excellence of these well-known churns. Best of all is the-

"FAVORITE" CHURN (with Bow Lever)

axwel

You can buy the "Favorite"

which ern way to clean ats, etc. Gett low. Agent Agent -----A. J. KIRSTIN CANADIAN CO'Y. 5303 Dennis St., Sault Ste. Marie, Ont.



Garclaugh May Mischief, the First 25,000-lb. Ayrshire Cow.

Holstein Breeders in Optimistic Mood

(Continued from page 18.)

8 69 11200 lbs. corn silage at \$3 per ton 22233 lbs. beets at \$4 per ton. 1874 lbs. alfalfa hay at \$24 per ton 906 lbs. mixed hay at \$15 per 6 80 ton Green feed

25328 lbs. milk, equals 11780 qts., sold wholesale at 6

portation

48,386 children, the agricultural courses, in which thousands are now enrolled, the Junior Farmers' Im-provement 'ssociations, and the Acre Profit Competitions, through the lat-ter of which 89 boys received their Expenses in a chort course of Course of expenses to a short course at Guelph this winter.

Prof. Geo. E. Day of Guelph char-acterized agriculture as the only busi-ness in which a man can thrive upon the losses which he incurs. He bit-terly resented the attitude of certain classes in Canada toward farmers, classes in Canada toward farmers, stating that in the Old Country agri-culture is a favorite occupation with the leading people of the land, and that Oueen Victoria herself always took a lively interest in the working of her farms. "There is enough in stock breeding," said Prof. Day, "for the best effort of the best brains in this country." Progress in Alberta

Progress in Alberta H. H. Craig, Deputy Minister of Agriculture for Alberta, illustrated the progress of dairying in his pro-vince by reference to the creamery output of 7,400,000 lbs. of butter in 1015 and a total sale of dairy products of \$11,000,000. To emphasize the im-1006 and a total perioducts of \$1,000,000. To emphasize the improvement that is being made in live stock, the said that 10 years ago he had difficulty in getting three uniform Holsteins and an equal number of Ayrshires for demonstration purposes. Now he could get good specimens of both breeds in 15 Ayrshire and 20 Holstein herds. Dr. Tolmie also spoke for the far West. The Holstein cow, said he, is the premier cow of British Columbia. Prices for grade cows are not so great as a year ago, as the demand for milk for city consumption is not so large. As a result of this the market is becoming discriminating, and

ket is becoming discriminating, and fat content of Holstein milk, in his province at least. Dr. Harwood, from province at least. Dr. Harwood, rrom the East, spoke as president of the Ouebec branch of the Association. He had one notable illustration of the wonderful progress of test work in the breed-the first 30-b. cow of Can-ada is still standing in his stable. The addresses were interspresed with musical selections, and a most enjoy-ble sime was spent. able time was spent.



Saw Frames, Pumps, Tanks, Etc. GOOLD, SHAPLEY & MUIR CO., LTD. Brantford Winnipeg Regina Calgary

Mention Farm and Dairy when writing.



Notwithstanding scarcity of all fertilizer materials and the Notwinstancing scarcity or an tertuizer materials and the very high cost of same as compared with other years, we are offering again this year a most complete line of Harab-Davies Fertilizers at very reasonable prices. We can supply you with brands containing up to 3% Potash.

Write for our 1916 Booklet. We will mail it to you prompt-ly, free of charge, and will have our local agent in your locality call and give you further particulars and prices. Now is the time to figure out your requirements for this coming season. Write us to-day.



Cost of feed 177 46

FARM AND DAIRY

discussion

Tap Your Maple Trees They will earn big profits for you it that season of the year when other work is slack.

There is an increased demand-for pure maple products and the pre-sent supply is exhausted. This means high prices and quick sales.

Get ready now to tap in the spring. Write for circulars describing The Champion

Evaporator

Carried. A. C. Hardy had given notice to the secretary of a motion whereby the accentance of a cow for advanced re-gistry should be left altogether with the executive, who at present appar-nith have no power to refuse recog-nition to any cow. Although this notice had been given within the re-quisite 30 days, it had not been pos-sible to have it printed for notifica-tion to the members, and Mr. Hardy arreed to let his motion remain over for another year. Dr. Farewell ask RTISIM H ORDER for another year. Dr. Farewell ask-ed that in case of the death of a h two is e and el-test. One ol course arm and d that in case or the usan or a nember, the transfer of his cattle to his legal heirs should be made with-but charge. As this, too, involved a hange in the constitution, the meet-ing decided that it had better remain

arried

916

ose the ng the e; and es and

scrub J. M. Cattle:

Ensil of the

hire

o give k in a

claugh

ercival er pro milk ent to butter.

about

under

is due 1. 1916

sume

of the is as

\$11 53

15 60

T

could Cana ended

ixty days ure. Man 10 used.-

nt chees s' exper

bank fas 1915, ove to Jame Out.

in how se addate 109 ements of is with the y, and the four days, ral Purple

ver for another year. **Officers Elected**

Unters lieuces The election of officers for the en-aing year resulted as follows: Pre-ident, M. L. Haley, Springford; irst vice-president, J. W. Richard-on, Calcdonia: second vice-presi-nent, Norman Michener, Red Deer, Ma: third vice-president, Neil angster, Ormstown, Que: fourth heni, Norman ancesser Jula; third vice-president, Neil Jangster, Ormstown, Que.; fourth rice-president, Dr. Tolmie, Victoria, L.C. Directors; F. R. Mallory, Irankford; R. J. Kelly, Culloden; rhur Dickie, Central Onslow, N.S.; nd G. A. Brethen, Norwood. The id auditors, B. Mallory of Frank-ard and A.C. Hallman of Breslau ere reappointed. Later it was dis-bered that Oficially at least the as-citation was without a secretary. G. clemons was reappointed, and at



banquet at the same time in another room of the Carls-Rite Hotel, and greetings were exchanged during the evening. Dr. Macdonald of the Tor-evening. Dr. Macdonald of the Tor-le paid to Canada great tribute that be paid to Canada great tribute that out war had risen to a positiwith out war had risen to a positiwith the Em-prise. All the other self-governing Dominions had been patterned after Canada, and it was our example that had made possible an Empire more strongly knit together than the Em-pires of the past inta had depended on an imperialism enthroned by force. "Liberty," said the speaker, "it toas," The Cow," was respond-ing thy Drof. Dean. After ealogis-ing thy Drof. Dean. After ealogis-thema were with the strind of the

A tossi, and town, was response er to by Prof. Dean. After subgri-ing the cow as the best friend of the binan arks, Prof. Dean advised the binan arks, Prof. Dean advised the the Holstein is the larger producer of milk and not to ret crapproducer of milk and the funds of the Associa-tion be used to provide a large black and white fing for every breeder, which would float over their barns, and, as the president of the Associa-tion had a lot of hard work to do, should be given the largest fing of them all.

Mr. Bailey, Assistant Deputy Min-ister of Agriculture for Ontario, spoke of the work that his Departspoke of the work that his Depart-ment is doing for the boys and girls on the farm, and traced the develop-ment of the rural school fair move-ment which in the last year reached

668 lbs. beet pulp at \$26 per

February 10, 1916

(Continued from page 17.)

are often nandled without the use of actual cash, but by using credit ob-tained through the bank. Locals were urged to establish a line of cre-dit at the bank to help them finance their operations and not to be afraid of their bankers, but to tell them frankly what they wanted and to let them know that they expected to se-

cure if. Several locals reported that they had had trouble through goods ar-riving without the bill of lading. Toods, but could not secure them. This caused dissatisfaction. Other clubs said that they having a line of cre-bin and ourscantering nament of the this difficulty by having a line of cre-dit and guaranteeing payment of the goods. Mr. Peter Porter, of Brant sounty, said that the difficulty could be overcome if the secretary would not notify his members until the bill of Jadine zuriged. lading arrived. Other Addresses

Ther Addresses Mr. B. C. Tucker, of Harold, spoke on methods of extending the organi-ration. He pointed out that the prin-tiples involved in cooperation are the highest ideals to which humanity can not be addressed by the second principles roated in brotherity love. More of this spirit is needed in the local or-sunizations instead of the selfishness which often is only too apparent. Mr. which often is only too apparent. Mr. Tucker pointed to the growing power fucker pointed to the growing power of the middlemen and the tendency they show to squeeze both the pro-ducer and the consumer. He urged the local organizations to make the central organization in Toronto their central organization in Toronto their middleman, and warned the locals against piling too much work upon their secretaries. He suggested in-stead that committees be appointed, and much of the work now given to the secretary in the autochasing of and much of the work now given to the secretary in the purchasing goods should be relegated to be committees. Secretaries are being manufacturers and other oucerns, and this created a condition which was dangerous. Mr. Tucker expres-by the central to the Arter complet-ing his address, Mr. Arter complet-ing his address, Mr. Mcker was call-of home on account of the serious ed home on account of the serious illness of his wife. Farm and Dairy has received word this week that Mrs. Tucker is now recovering from an operation for appendicitis which had to be performed that night in Belle-

ville. Organized Marketing Mr. F. C. Hart, of the Markets Division of the Ontario Department of Agriculture, spoke on the subject of organized marketing. He urged farmers when forming cooperative associations not to take in everybody who applied for membership, but to who applied for membership, but to pick out as members and officers men whom they knew would be loyal to the organization. It was better to start with a few loyal members than with a with a large organization, included in which was discordant elements. The necessity for grading goods properly in the marketing of farm supplies was emphasized.

emphasized. The city consumer's standpoint was explained by Prof. Sissons in an ad-dress on "The City Consumer and the Farmers' Movement." Prof. Sis-sons showed that the price of farm mohere the consumers are heiner forewhere the consumers are being forced to cooperate in an effort to buy their supplies more cheaply. He mentioned the Housewives' League and other similar organizations in Toronto, and suggested that if the foronto, and suggested that is the organized farmers would get in touch with the consumers' organizations the results should prove beneficial to

could best handle their financial pro- both. He showed that where farmers blems. Mr. John Z. Fraser, of Bur-ford, showed how big business deals to waste to the extent of many thou-are often handled without the use of sands of dollars, because they did both. He showed that where farmers a year ago allowed their apples to go to waste to the extent of many thou-sands of dollars, because they did not know where to market them, city consumers shortly after were paying exorbitant prices for such fruit. Live Stock Shipments

An address on live stock shipments was given by Mr. E. C. Drury, of Barrie. Mr. Drury showed how he had saved \$23 on a shipment of live stock he had made through the agent (che and the stock here and the stock here). stock he had made through the agent of the central company in Toronto in-stead of salling to the drover. The live stock trade is in the hands of the dealers. Farmers do not know how their stock grades, while the dealers their stock grades, while the dealers do. In deals between the drovers and the farmers, the drovers have the ad-vantage. Much needless expense is incurred by drovers while driving through the country to secure their shipments. Were farmers to unite and shipments, were tarmers to unite and arrange to ship on certain dates, this expense could be saved. A central or-ganization is required through which these shipments could be marketed to the best advantage. The Central he best advantage. The Central Farmers' Company now has a repre-Farmers' Company now has a repre-sentative on the Toronto market, and as far as Mr. Drifry could see, it was safe for the local farmers' clubs to sell their stock through the Central Far-mers' Company. The concluding address was given by Mr. W. H. English, of Harding, Man., who declared that the Thref movement has come failing the same

mers in the west are fighting the same business in the west are righting the same business interests that are squeezing the farmers of Ontario. The time has come for all the farmers to unite. He told how the shipping interests nearly succeeded in having legislation adopt-ed which would have proved disas-trous to the farmers of the west had trous to the farmers of the west had not the farmers heard about it in time to have it blocked by the Senate at Ottawa after it had been passed by the House of Commons. When firms the House of Commons. When firms manufacturing arricultural imple-ments had refused to deal with the farmers in the west, the farmers had bought the entire output of an On-torio manufacturer, and also made large importations from the States. thus won out in the end. English gave it to be understood that what the farmers of the west have accomplished the farmers of Ontario should be able to repeat.

The enthusiasm manifested through out all the proceedings of the con-vention justifies the expectation that next year's convention will prove an even greater success. Further reference to the addresses will be published in Farm and Dairy. A number of the delegates at the convention asked for extra copies of Farm and Dairy con-taining the report of the convention, to read at their club meetings after they returned home.

GOOD TEST WORK IN HASTINGS COUNTY.

<text><text><text>

The Farmers of Ontario are Well United MARKETO REVIEW AND FORECAST

<text><text><text><text><text><text>

supervised or entity and tough \$1.05 to \$1.05 tool wheat, \$80 to \$50 tor cals and over a strendtry a strend \$1.05 tool wheat, \$80 to \$50 tor \$1.05 tool \$1

They in W Edgs AND POVLTRY. Esg quotations are on the down grade and mild weather havi been the chief fac-tor in helping deelists along the trade at the to 36e; extra-, 30e to 30e; No. 1 storage, 30e to 30e; extra-, 30e to 30e; No. 1 storage, 30e to 50e; Ni, 22 to 50e. In-creased provide relations from the port of Montreal, where receipts for the weak, end-ing Web. 2, 1954, were 4506 cases, as afguing that market new lial arg quoted 30e; ne-lects, 30e to 25e; No. 1, candled, 30e to 27e; No. 5, 25e to 30e. Buyers arg at <u>POTATOES AND BEANS</u>. Potato quotations now rule i gut, three

POTATOES AND BEANS. Dotato quotations now rule lust three and one-half times as reactions of the corp failure being a bleasting in discuss to the producer. On this market Ontarios and Queber of the start and Quebe posters at 81.90, and Quebe posters at 81.90, and Quebe posters at 81.90, and three-point picture \$1.00. Montreal guota \$1.00 km \$1.

DAIRY PRODUCE.

grades, 8.3.7 to 8.47 The market is easiler and even a reduc-tion in quotations on butter of one-half cent to one cent have not served to unich-en business appreciably. Unsewratiline weather is entitle is a served to unich-strong and the server of the server will all be needed. Greansery recursible, site of butter on hand are slightly in advance of this time last year, but have will all be needed. Greansery recursion and the served of the server of the server of the server of the server precision of the server of the server center attropy of the server of the server excited attropy of the server server of the server of the server of the server server of the server of the server of the server server of the server of the server of the server server of the server of the server of the server server of the server of the server of the server of the server server of the serv

February 10, 1916

LIVE STOCK. The wesk's trading resulted most favor-dependencies of the state of the state of the state the seek. Fortunately in view of the mild he seek. Fortunately in view of the mild neutron state of the state of the state the seek. Fortunately in view of the mild neutron state of the state of the state the seek. State of the state of the state the state of the state state of the state the state of the state state of the state the state of the state state of the state the state of the state state of the state the state of the state state of the state the state of the state state of the state the state of the state state of the state state of the state state of the state state state of the state state state of the state state of the state state state of the state state of the state state state state state state state of the state stat

to 5.30 cutters and canners, 5325 10 Small meast seven is manil supply and demand exceptionally firm. Spring lamb, out, 5530 hosts only apply the sevent state of the sevent sevent sevent state of the sevent sevent sevent to 57.05 cutts, 15 of 53.05 strongert. It is reported that packers have been buying hop products from Chicason on order to fill their orders. So to 550; like sevent s

THE NORFOLK SALE.

near the Grand Trunk station. THE MITULA LIFE ASSIDANCE COM-PANY OF WATERLOO, ONT. POTE things stand out prominently in the statement leand the policy of the statement leand the statement leand the policy of the statement leand the statement lea

Immuno for a smaller ottlas, because the dividend may be used to reduce the second state of the secon

February

(20)

132

1.13 3

4

Sale Sale

111

Our Ne:

What use he mercial fertili operations an you noticed in

For the b query receivery 19 query received february 19 the writer' Farm and I Writers of a lished will re renewal. Ad "Question I Dairy, Peter

Mr. W. E Columbia, w Experience week. We re plies that or published in many excellent

Indoor Pres (Continue

the windows bel lowed to accum the barn, while y through the ground beneath both the barn ticularly the m barns were nat ground to secur ed that the m of its value. build concrete in neath their stal of the new bar

the concrete ba a shed or direc

Our own barn type. The horse are separated h sliding door, s scatter the hors the gutter behi mixes the two n each improves t other. Horse r heat and lose a in the ammonia so wet and sog

not root it well This brings n teen shoats and getting a large just now from n not only get a l otherwise be wa and tramping, the bedding, manur olid uniform p has lost nothing by heating, has by the concrete be hauled at my

Handling Win

"Eastern Subsc WE have for of handli in this cour stock in a barn, with mass full length of th ing into a man which is 10 by 2 is set on concre half higher the also of concrete.

tight pit. A door is cut side of this buil a waggon or sle order to haul th is done about or ing it on the comes, after wh on a hillside) it piles of about 19 more than two fe are tramped by to the top and side, then turnin 916

.... 2000

favor-of but-nesday, end of he mild k, ship-Wee or the

cho 87 heifers \$6.75 ulls, \$ \$. \$4.7 3.25 to ly and lambs, o \$8.50; t ewes, toks, \$6

demand rs hay 0: ligh

putting at their on Wed ave well well to n, R. R ag of 4 1 Keyes am is 1 first 4 .-daugh with 1 mil 2-yr.-ok and

. Noth-at this redit on fill wield held at Wallace,

E COM. ently in

\$13.

nount a

February 10, 1916

Our Next Competition What use have you made of com-mercial fertilizers in your farming operations and what results have you noticed in your crops?

you holiced in your crops . For the best answer to this query received on or before February 19th, we will extend the writer's subscription to Farm and Dairy for one year. Writers of all other letters pub-liand will receive a six-monthe' Writers of all other letters pub-lished will receive a six-months' renewal. Address all replies to "Question Editor," Farm and Dairy, Peterboro, Ont.

Mr. W. E. Smith, of British Columbia, won first place in the Experience Meeting of this week. We received so many re-plies that only a few could be published in this issue, and many excellent letters are being held over for future issues

Indoor Preservation in N.S. (Continued from page 4.)

the windows behind the cattle and al lowed to accumulate in a pile against the barn, while the urine went directbe barn, while the plank floor into the ground beneath. This was bad for both the barn and the manure, parboth the barn and the manure, par-ticularly the manure, for since the barns were naturally built on rising ground to secure drainage, it follow-ed that the manure pile would be drained, too-offee of three-fourths drained, too-often of three-fourths of its value. Then men began to build concrete manure cellars under-neath their stables. And now most of the new barns have the stable in the concrete basement, from which the manure is carried daily either to shed or directly to the field.

Our own barn belongs to the middle one. The horse stalls and cow stable type. The horse stalls and cow stable are separated by a partition and a sliding door, so that it is easy to scatter the horse dung and litter in the gutter behind the cows. This mixes the two manures perfectly, and each improves the consistency of the other. Horse manure by itself will heat and lose a good deal of nitrogen in the anmonis gas. Cow manure is so wet and soggy that the pigs will notroot it well at no. type.

This brings me to the pigs. Four-teen shoats and two brood sows are large part of their living cetting a just now from my manure pile. They not only get a lot of food that would otherwise be wasted, but by rooting and tramping, they work up all the bedding, manure, and urine into a solid uniform pile of fertility, which has lost nothing by leaching, nothing by heating, has all the liquid saved by the concrete floor, and which may he hauled at my convenience.

Handling Winter Manure in N.B.

E have found that the best way of handling manufactors in this climate is to have all our stock in a row along one side of barn, with may are carrier running the full length of the stable, and empty-ing into a manure shed at one end, ing into a manure sned at one end, which is 10 by 20 feet. This building is set on concrete walls one foot and a half higher than the floor, which is also of concrete. This makes a watertight pit.

A door is cut in the centre of one side of this building, through which a waggon or sleigh can be backed in order to haul the manure out. This s done about once a month, spreading it on the land until the snow comes, after which (as our farm is on a hillside) it is put into circular piles of about 10 loads each and not more than two feet deep. These piles are tramped by hauling each load on to the top and dumping it over the side, then turning the team and driving over it again on the way back. This is hardly necessary with us, as the weather is usually cold enough to freeze the piles solid. These piles are placed one in the centre of each acre for oats, and from two to four per acre for roots or corn, and are spread in the spring as soon as the land dries enough to carry a team. Although there is a little extra work land

to this system, we would rather do it than spread the manure on too much snow or dig it out of a steam-ing manure shed in warm weather.

Winter Cattle Feeding R. T. Tamblin, Victoria Co., Ont.

N. T. Jamein, Pictoria Co., Ort. N Guiry as to feeding cattle pro-blem, I will try and relate my experience with fattening cattle in winter time.

I find that cattle that are to do well in winter months should be stabled between October 1st and 15th.

well in winter months should be stabled between October Ist and 18th. After this date, night frosts and cold winds take the nurrure out of the grass. The cold winds and chilly nights are also hard on the cattle. After cattle have been stabled they should be started on about one-third of straw or out sheaves and one-third of straw or out sheaves are fed. This state of feeding is kept up until about he middle of February. Then we start at feeding strain, light at first, until about five quarts is reached, blood feeders. When my cattle sold last open fed in the out about be hereabouts. When my cattle sold last one the to bib pounds each.

Handling Cross Bulls

Wm. Ellery, Victoria Co., Ont.

F EED the cross bulls regularly, and have clean, fresh water with-in his reach at all times. Never in his reach at all times. Never let him out at large, exceept in a well-fenced pasture, and have a pen close to the pasture field for summer ser-vice. Lead the cow into this from the yard or lane when she is to be serv-ed. Have a gate or door leading from the pasture to the pen, with rope at tached to the lock bolt leading to the outside of one. that was can enser the set of and close without staying inside. Or have a slide door at the corner. Either will be satisfactory.

To remove the cow when desired, draw your pasture door open, and watch your chance. It will soon draw your pasture door open, and watch your chance. It will soon oome. When either animal wants to go through, shut the door when only one has passed out. To get the bull to come into the pen will be easy after he has been there a few times.

Place him into a good roomy box stall, well ventilated and lighted. Try and have your summer pen con ry and nave your summer pen con-venient so that you can use it at all times with a lead to the stable or box stall. When separating the ani-mals, either can pass through this passage and you have them as in summer time. Don't tease or allow any person to

torment him, and the chances are the cross bull will grow less vicious as he gets accustomed to his surroundings.

roundings. In the report of the Ottawa Winter Fair Dairv Test, F. H. McCullough & Son, Navan, Ont., are credited with having a heifer in the Holstein class, 36 months and under 48. This heifer was entered, but at the last minute. Mr. McCullough found that he could not take her to Ottawa. Iust why his heifer should have been included in report handed out by the Winter Fair officials, which was pub-lished in Farm and Dairv, we do not lished in Farm and Dairy, we do not

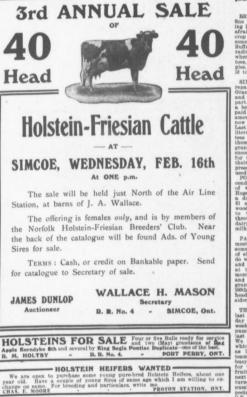


If you need a young sire or Foundation Stock for a record herd, don't pass this opportunity. They are priced for quick cash sale.

John Willoughby, Stock Farm Bell Phone Smith's Falls, Ont.

134 (22)





KORNGOLD IMPROVED ENGLISH YORKSHIRES

ed to farrow in April; also a choice lot of Young Pigs, just read F. J. McCALPIN, Korngold Stock Farm, GANANOQUE, ONT.

Lakeview Stock Farm, Bronte, Ont. feundation herd, consisting of 1 male and 3 femates, all first of the backed by officially tested dams. Terms to suit purchase. F. OSLER, Froeriter.

- VILLA VIEW HIGH-TESTING HOLTEINS Now is the inter to be a son sired by King Segie Alexitra Galamitr, the 2000 Sch show buil, sired by the Sould buil, them quickly to a sone know that the Sig Guehn Champion and two of her sites are at our farms to be bred to King? Send for Pedigree and Prices. SEBRINGVILLE ONTABLO ARBOGAST BODS. ONTARIO

FARM AND DAIRY

OUR FARMERS' CLUB Derresentances Invited PRINCE EDWARD ISLAND

PRINCE EDWARD ISLAND KING's Co., ONT. MCNTAUTR, Jan. M-Sluce my last write-ing, but rain eames and took it, all aver-the vestike's as awarm as summer. Slock be lote of feed in our section this win-ter. Our eqg circle is running in good shape and a good many eqgs are being guidered. -OL. ONTARIO

ONTARIO

OTHERD BIDDOR DO, NG, NG, CHARNER, Dur-ing last week it rained come. Farmers are arraid this weather will affect the hay come orean and milk being prought to built of the second second second second response of the second to the second se

BECORD FRICES FOR GRADE HOLSTEINS AT the dispersion sale of the show at the close of the San Prancisos Ex-position, December ist and Ind, grade Holstein cowe brought probably the most rands endowed the same sale of the show rands easies in the United States. One prade Holeiten cow, Carnation Queen, was picked out by Auctioneer Gue, of Wash-ington, to be the finet infoldual Holdeen cere to be broken to fusion Queen, was picked out by Auctioneer Gue, of Wash-ington, to be onefact, by using Carnation Queen as the ideal Holstein cow. Show was placed down to a suit Carnation Queen as the ideal Holstein cow. Show and placed down to a millionaire liv-ting south of San Francisco for 8505, which RECORD PRICES FOR GRADE HOLSTEINS

February 10, 1916

February

AVOND

ficial tests a tiac Artis Cr 23 lbs. as a over 19 to ov

over 19 to or more to fr splendidly b and all price dams, some need the roo at bargain p mos. old bul Echo Syfvia and sired by other from

and sired by other from a gerveld Pfetj cord of 27.49 her class in

All bulls (King Pontiac

Wm. J. BAL SUNNYS

Imported and choicest breedi been selected Young Bulls of "Nether Hall as well as a fe for sale. Write

J W. LOGAN

Large Cows, 1 High Testers. Calves an

WOODDISSE BROS.

Young Sto

- Head

We are of

grown, of go

she is a ha

sire is from ducer giving

is a half-sist If blood o ouiries to

JOHN DU

Sired by S daughters of breeding. Gr C. DUFF NE

3(

H

14 C

Young producers. O Three fine R.

1

Th

Addre H. LYNN, R. MAPLE FI fit to head any old ; the sire, of whom you

State

several of the leading grade herds in the Bia. construction of this M. Harold Mahlin-ter anys. 'We happened to see several of the grades leads summer that were million over 60 lbs. a day, or about five gallons (viene measure) to the milking.'' When Holstein grades Gas commen-tions of milk is a great encouragemen-to farmers with grade herds, as to what can be accompliand by the use of pur-bred Holstein sites in a few years.'' W. A. OLDENONS.

ROLSTEIN VALUES 60A81X0. ROLSTEIN VALUES 60A81X0. Warman and the relaxation of the interstate unamatine regulations, imposed for the purpose of preventing the spread of Rolsteine. California, which has found the Blackand/Whites quies to he liking, leads the other states in sematics. The relaxation of the states of the states all from the land of oranges, have jun purchased in New Tork and Ontario 75, head of States and And Ontario 75, head of States and the states of the states of the states are not hold. This is the spr-volumes for the estimation in which red foliations are now hold. This is the spr-press charges alone annuming to 50%.

Argshift dis even earlies car a line of press charge along a sufficient of the second second the second of the second of the second second silver cup.

Mature Class.

Mature Class. Daley of Peridals, 2073; 1432 Ibs. mlk, 64 Ibs. fnt, 65 days to eparce; 2315 poins -w. C. Tully, Athelstan, Gue. Lady Jame, 3006; 2309 Ibs. mlk, 502 h four, Byckmanie Corner, Out. Turner, Burnside Violet 4th, 36076; 1308 Ibs. mlk 57 Ibs. fnt, 2 dys. 1666 points.-Worker Puel Co., Nanaimo, R.O. - Puel Co., Wanaimo, R.O.

Pael Co., Nanatimo, H.O.
 Gueen M. Nurvi Yaser Jold Tana.
 Gueen M. Nurvi Yaser Jold Tana.
 Gueen M. Nurvi Yaser Jold Tana.
 Marco et Rockton M.A. (1998) March 1998
 Gotter Cont.
 Janno et Rockton M.A. (1998) March 1998
 Gotter Cont.
 Marco et Rockton, Ont.
 Marco et Rockton, Marco et Rockton, Status, St

JERSEY RECORD BROKEN

JERSEY RECORD BROKEN. The world's record for production jersey oow has been seen basic time for milk production, not for The cow is Palinovit. Here production (2007) The cow is production of the second here funiteent Bees. Passport's record here funiteent Bees. Passport's record her out 6.36 gallons per day for the year.

OUR O 2-yr.-old m lb, 1-yr.-11-of Roxie F WIL

HOTEL CARLS-RITE **TORONTO** Holstein

d at \$300 woh. We of grade ok Farms ed lot of is in the

MoAllis-overal of milking e gallons

to what of pure-EMONS,

NG. nter-state posed for de spread the an-try sales ich has e to her-ternation-enderson, de Sona, tario 25 enderson, de spread-hout 550 se splaa ich sod lot went the er. o \$5000.

fat. She , Orkner, n n by the roduction, four-year. , Que. is pain the The basis point for hove the wenty-free over and alify, and the end of hese cuss t the an-leld in the average of the the cuss t the an-leld in the ure class, or classes wins a swins swins swins a s Ibs. milk 12 points k. 502 lbs. Turner &

Ibe. milk lk, 436 lbs MoPher Ibs. milk, -Est. Geo.

The milt 13014 lbs

13930; 1288 109 points 10237 lbs ints.-Ges ie. Sec.-Tres

EN. tion by a maten, this for fi Hon. J. Iba rd the

February 10, 1916

AVONDALE HOLSTEINS

AVONDALE HOLSTEINS We are sumine our first back in order in a Artis Granda. The brie the making over 16 to ever 20 libs, and have twenty over 16 to ever 20 libs, and have twenty opendidly bred young builts of allower and all prices, all with officially tested dams, some as high as over 20 libs. We need to be allowed to the second back of the second second back of the analysis of the second back of the back of the second back of the second ball from a daughter of Max generative by the famous 4 lib ball. An-gerveld Price, with a drived champion, and all price, with a drived the ball An-gerveld Price, with a drived the ball of 20 drived by the famous 4 lib ball. An-gerveld Price, with a drived the ball An-gerveld Price, with a drived the ball An-der class to America. Aldress all correspondence to— H. LYNN, Bay, No. 5, Breckwille, Ont.

H. LYNN, B.R. No. 3, Brockville, Ont. A. C. HARDY, Proprietor

MAPLE FRONT FARM offers for the agrand fit to hand any herd, the dam a 28 lb. 4 year-od; the site. Ourvilla Site Teake Colantha, of whom you have all heard.

Priced right by applying to Wm. J. BALD, R.R. 2, MITCHELL, Ont

SUNNYSIDE AYRSHIRES

Imported and Home Fred Are of the choicest breeding of good type and have been selected for production. THIEE Young Bulls dropped this fall, aired by "Nether Hall Good time" - 25441-(Inp.), as well as a few females of various ages, for sale. Write or come and see.

J W. LOGAN, Howick Station, P.Q. ('Phone in house). 1-5-1

SALE DATES CLAIMED.

Norfolk Holstein Breeders' Sale, Simcoe, Feb. 16-W. A. Mason, Secretary. Sale of entire breeding herd of Holstein-Friesiars.-W. C. Prouse, Tillsonburg, Feb.

James Lettle, Norwich, dispersion sale of Holsteins by auction, Feb. 29.

addition location, and a state of a state of the state

B.P. DELEGATES AND JUDGES.
DISources for the set of the

TANGLEWYLD TANGLEWYLD AURACHARDEN DI Leading R. O. P. Head Largo Cows. Largo Tests. Large Records Colves and few Cows Plana Largo Cows. Largo Tests. Large Records Colves and few Cows Plana Colves and

Young Biock for sale, always on hand (both setwe), from high-testing heavy producers (Bood udders and large tea a special feature of my herd. Three fine young Bires ready for service. Get particulars of these if you need a site. R. F. BROWNIEE, Peach Biow Farm, HEMNISGFORD, of IE.



we are ouvering a make cair, mine months old, well-bred, well-marked, well-grown, of good type and conformation. His dam gave isbéed bla milk in nos rear, she is a half-sister of May Echo Verbelle, 2007 Hos butter in seven days. His aire is from the same sire as May Echo Synta, the world greatest milk pro-ducer giving an average of 113 Hes milk per day for 130 days. His aire's dam is a half-sister of Victoria Burke, 30.61 He, butter in seven days.

If blood counts, here it is, backed up by championship records. Address enouiries to JOHN DURRAN - R. R. No. 1 - CAMPBELLFORD, ONT.

- 4 HOLSTEIN BULLS FOR SALE

Sired by Sir Johanna Pontiae Korndyke. Dama are daughters and grand-daughters of Sir Pietertje Posch De Boer, with milk up to 100 lbs. per day. Good breeding. Great producers. Priced very reasonable. C. DUFF NELLES. R. R. I. SCOTLAND. ONT.



H.-F. DELEGATES AND JUDGES.

Judges Recommended

HEAD OF REGISTERED The Herd of WM. S. SHEARER, R. R. No. 2, LISTOWEL, Ont. FRIDAY, FEBRUARY 18

-AUCTION SALE -

The offering comprises cows fresh and some to freshen, 2-yr.-olds bred to calve in March and April, and heifer calves. In this herd are descendants of "KING SEGIS," "HOMESTEAD COLANTHA SIR ABBEKERK ?ND," VICTOR BUTTER BARON." The catalogue also gives particulars of two bull calves of exceptionally good breeding. If you are looking for Holstein investments you cannot afford to miss this sale

TERMS :- Eight months' credit without interest and a discount of five per cent per annum for eash.

NO RESERVE. SEND FOR CATALOGUE.

Sale will be held under cover if necessary and will be over before evening trains leave.

L. H. LIPSIT Sales Manager

W. S. SHEARER Proprietor

(23) 135



- SERVICE SIRES OF PONTIAC KORNDYKE BLOOD -

SDR VACE SHEES OF POINT HAVE NORMALL INE DEVOUS No. 1-148 51. h dam has a 31 h. and a 37 h. record siter and is by Pointan Korndyke Hengerreid De Kol. His gire is a son of Pointae Artin Canada, whose Y-rold daupheer. record at 13 grs. giring 104 lbs. milk. Neb has also a 32 h. 3 No. 3-His dam has nearly 17 hs. at1 yr. and 11 months, and is a dauphter of the dam of siter No. 1, and sired by the same site as No. 1-a son of the LAYANS A FUFFELLE. EXAVINS A FUFFELLE.

BLOOMFIELD, ONT.

- GET KORNDYKE-PONTIAC BLOOD -

GET HORNDYRE-PONTIAC BLOOD King Seris Portian dirondask-rising 3 years old-a perfect type of show buil-touch full of quality-king and sure. Its 3th 4yr-old and has never been low of the show ring. She is by a son of hells Korndyke, the foundation his dam. daughter of thy fing structure for series and a series breeding for you. Write early if you want a chance on the site. There's breeding for We have also some very inne young sires from record dams. They are sired of Armann's A Purtelle great herd sire. King Sogis Aleartra Spolford, the son of Armann's A Purtelle areas the site of the series of the test in Mol-series built was are open tube Aleartra. There young sires are not ready for series built was are open tube Aleartra. These young sires are not ready for series built was are open tube Aleartra. These young sires are not ready for series built was are open tube Aleartra. There young sires are not ready for series built was are open tube Aleartra. These young sires are not ready for series built was are open tube Aleartra. The synce was and the test in Mol-terin blood Aleartra Should Contra



E. B. MALLORY, Bayside Stock Farm, BELLEVILLE, Ont.

WILBER C. PROUSE, Alfalfadale Stock Farm, TILLSONBURG, Ont.

FARM AND DAIRY

