







NOVEMBER 20, 1919

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## THE FARMER'S ADVOCATE.

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THERE is no underwear in Canada to-day the equal of STANFIELD'S "RED LABEL"-for the

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Made on comfortable, roomy, natural tread lasts. A sure cure for tired, aching feet.

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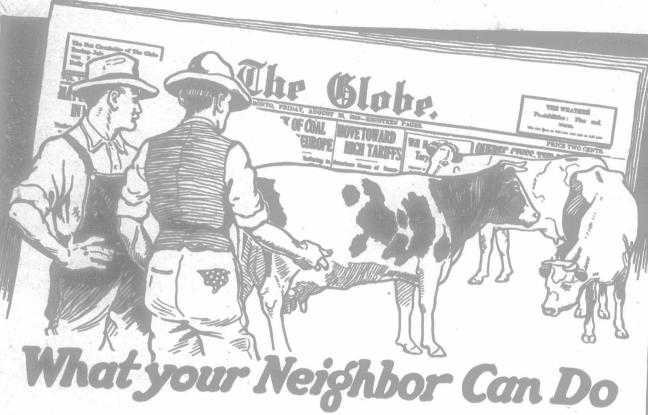
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"Moose Head Brand" or write us for catalogue and price list.

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**THE** experience of others always is helpful. The story of things accomplished in every day life on one farm is informing and stimulating to other farmers.

The Globe has always had this in mind, even before the days of Bow Park Farm, when George Brown showed his neighbors what could be done with pure-bred stock.

This thought still governs The Globe. Its weekly agricultural pages—"Farm and Country Life in Canada"—are devoted to reporting and recording the doings of the farmers throughout Ontario.

The Globe does not say what the farmers should do, but tells them what others do, and suggests that its farmer readers do likewise.

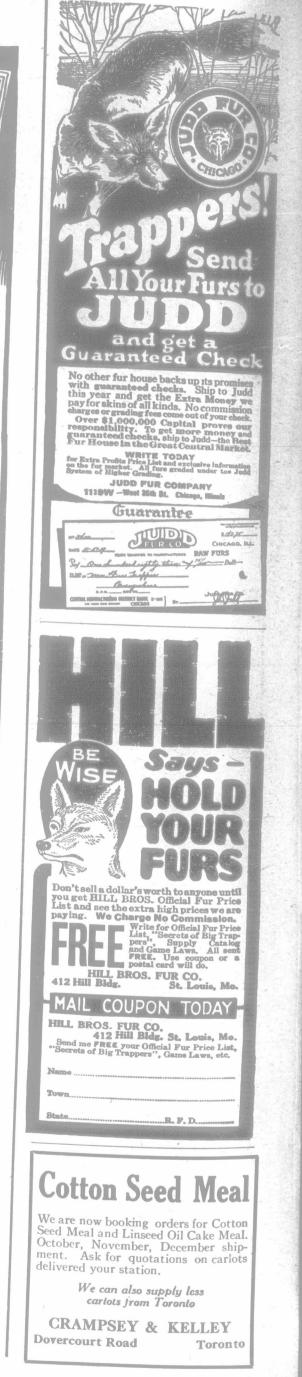
Two members of The Globe staff devote their whole time to the collection of material for this Departventions. They report all developments in rural life as reflected in these gatherings, as well as in the personal experience of successful farmers. Through its "Farm and Country Life" Section, The Globe has identified itself with every movement calculated to improve the conditions under which farmers and their families do their daily work.

The Globe does not assume the rôle of a Farm Journal. It is first and foremost a Great Family Newspaper, appealing to every class in the community.

All persons, old and young, on the farm, should read a daily newspaper. It broadens their outlook and keeps them in touch with the outside world.

For seventy-five years The Globe has never wavered in the performance of its duty. The service it has rendered Canadian Farm Life in the past is its guarantee of its service in the days to come.

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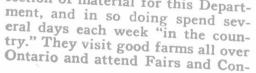
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**NOVEMBER 20, 1919** 

THE FARMER'S ADVOCATE.

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**TAR** is unavoidable even in the best car, but certain parts wear out more quickly than others. There is no need of scrapping your car because the piston rings have seen their day, because the platinum points of the vibrators are worn out. Probably the rest of the car is as good as new.

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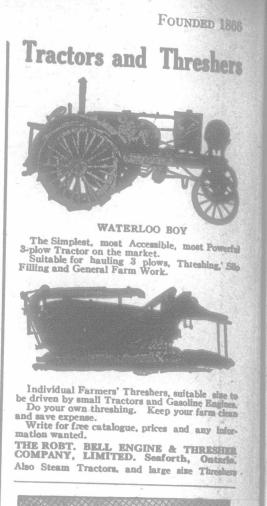


## FORMERLY CALLED MONARCH

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BUY "Invincibles" just once. That is all we ask. You will go out of your way to buy them next time, because there is not another boot like it for wear. Any man who gives them a trial continues to wear them year after year.

"Invincibles" are Pressure Cured. The same high Pressure Process that puts into automobile tires the wear resisting quality which enables them to carry a 10 ton truck thousands of





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## The Farmer's Advocate Home Magazine PERSEVERE ESTABLISHED SUCCEED 1866

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#### LONDON, ONTARIO, NOVEMBER 20, 1919. EDITORIAL. National Thrift.

Winter is just around the corner; be ready!

LIV.

Do not leave the cattle out too late and lose the summer gains.

It is significant that certain of the old political parties desire a change of name.

Judging by the way the Senate wrestled with the Prohibition measure and passed it in quick order, there is some life in the Upper House yet.

Colds and catarrh in fowls is very common at this season of the year, and should be prevented by providing against drafts and keeping the house dry.

The Horticultural Show held in Toronto last week should mark the beginning of a new era in fruit growing, which has been more or less dormant in Ontario for the last five years.

When politics is discussed in the home by both parents, who are entitled to vote, the youth of this country ought to grow up with a clear understanding of what voting means.

Many level-headed farmers are picking up young sows with the intention of having them farrow next autumn. A good harvest in 1920 is all that is needed to reveal a hog shortage.

The Health of Animals Branch has provided the machinery for the maintenance of tuberculous-free accredited herds, and the regulations ought to be thoroughly understood by all stockmen.

The coming U. F. O. Convention promises to be a rousing one, and the people of Toronto will soon begin to realize the importance of agriculture when they find the Parliament Buildings and Massey Hall in the possession of farmers.

flocks, is sound, and there is no just reason for the quietness of the market for good female breeding stuff

Now that Canada's 1919 Victory Loan has been successfully secured, the Canadian people have made themselves liable for the principal and interest of a national debt surpassing \$2,000,000,000. This means about \$250 for every man, woman and child in the Dominion, and it is now necessary that every ablebodied person in the Dominion turn the full force of their joint endeavors to repay this somewhat staggering obligation. It is true that all the natural, financial and moral resources of Canada are behind the Government's promise to pay, but the Government would be powerless to avoid the peril of extravagance on the part of the people.

It is all right enough to say that the Canadian people have increased their cash balances in banks and post offices by \$650,000,000 during the past five years, and that our trade as a country has reached the surprising sum of two and a half billion dollars annually. The fact remains that for this debt of \$250 per capita we have only \$2,000 in natural resources with which to pay it and keep on working as a nation. But the Canadian people owe roughly another billion dollars that must be met by provincial and municipal taxation, and with the further inevitable expenditure that must accompany additional growth and expansion, there is evident the greatest need for national and individual thrift. Individual thrift is the keynote of national saving, and without it the liquidation of our three billion dollar debt is an impossibility. There is always a tendency to enjoy prosperity while it is going, and'to pay our debts under the most difficult circumstances. It is easy to go into debt when prices are high and when our incomes are at high water. It would be far better to get out of debt at this time so that, should hard times come, as many thinking men believe they must, we will have a smaller load to carry, and so can bear it easier.

Let us institute among ourselves a campaign for individual thrift. Let us not spend that dollar unless we can get full value for it. Let us take care of our working capital, save where we did not save before, and where perhaps we need not save to pay our personal obligations. Each of us now is liable for a share of a big national obligation that will require our very best endeavors. Collectively and in co-operation with each other we can keep Canada's face to the front and wipe out this heavy burden. Profligate Governments would render abortive any effort on the part of the people to retrench and discharge these obligations. Economy, so far as it is consistent with efficient administration, must be practiced devoutly, and any endeavor to maintain the present artificial prosperity by reckless spending will lead ultimately, and perhaps suddenly, to national bankruptcy and despair. The people have shown themselves willing to lend; now all Governments, with particular emphasis on the Federal Administration, must set the example of thrift and economy which are absolutely essential to the future prosperity of Canada.

now prevailing. Owing to the feeling that sheep require additional fencing and that dogs may become a nuisance, there is no danger of the sheep industry being over patronized. and a beginner need have no fear of a serious glut on the market due to over-production. In this regard sheep are one of the safest branches of live stock to

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keep on the farm. Many are going light on hogs just at present because they are a grain proposition; but sheep will do well on hay and roots with a little grain added at and around lambing time. A flock is not a serious menace to the grain bin, and they are a valuable asset to any farm. Anyone considering a start or wishing to enlarge on present holdings ought to take advantage of the situation now existing and lay the foundation for a high-grade flock.

#### Something Better Than Resolutions

The time has come when farmers will be obliged to pass fewer resolutions; a substitute has been found. The agriculturist has accomplished little by memorializing the powers that be, and another method has been sought and discovered.

The resolution idea is a by-product of so-called democracy. In a thoroughly democratic organization, every man has his say, and under these circumstances a luxuriant crop of theorists is produced. Such individuals have a passion for framing imperative resotions. They "whereas" and "therefore be it resolved" till the welkins ring, and sensible folk, because they must be democratic, are forced to listen to their strident demands.

The resolution idea is productive of good results in direct ratio to the calibre of those who father resolutions. A resolution in itself means nothing. If fathered by an incompetent, high-strung individual, it will cause only a slight ripple on the surface of public opinion. If it is the crystallized conviction of a sane, progressive and insistent individual, it will result in contributing something to society.

But "it's an ill wind that blows nobody good." The resolution idea has its compensating aspects. Just as erupting volcanoes are said to be the safety valves of the world, so a bristling resolution is the safety valve which prevents a lot of excitable folk from bursting with the strain of pent-up grievances and emotions. There will be less need, however, for efficiency in framing resolutions, and the fear is that this inspiring accomplishment may become a lost art.

#### AVE MONEY ON Wagon Wheels RING NOW !

Owing to the great steel strike and heavy increases in production costs we are forced to advance our prices January 1st, 1920.

Up to the end of 1919 will accept orders at present low figures.

Buy now and make big saving. OUR WHEELS ARE MADE TO FIT KEIN. Make a new Id one at a small cost.

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s. Now is the up for Winter. LUMBER COM-MITED. io.

Dairymen should understand the methods whereby the National Dairy Council is to be financed. Producers are only asked for a paltry amount, but the aggregate will make it possible for the organization to do a great deal of good for the industry.

The Board of Commerce was appointed in response to the demand of the public for a reduction in the cost of living. The Government, knowing that it was being blamed by the fickle public for the high cost of living, appointed the Board of Commerce, stood safely behind it, and said to the people of Canada: "Here is our instrument for reducing the high cost of living. It is now working, and your troubles are practically at an end. Don't say that we haven't done our best to curb the profiteer."

It is all a silly game. The Board of Commerce, we suppose, will do some good. It will use its authority here and there, and it will tend to restrain the profiteer a little. But the Board is not prosecuting the profiteers, nor does it intend to do anything of the kind. It is investigating the conduct of industries, it is finding ample evidences of profiteering every day, but it merely shoves its findings into the pages of the daily press. This little scheme is intended to make the superficial public believe that the Government is really doing wonders to reduce the cost of living. It seems that modern Governments are able to mold public opinion by working through the daily press. It seems, too, that the public is always ready to take another bite of political bait.

#### Why Not Start a Flock?

Anyone who has had in mind laying the foundation for a flock of sheep will, perhaps, wait a long time for more favorable conditions under which to begin. Ewes of all ages are now selling far below their actual value, and the same is still more true of rams. Flockmasters are surprised at the lack of interest in sheep since flocks have yielded such a handsome return during the last few years. The demand for ranch rams is, no doubt, being affected by the production of breeding stock on the range or in neighboring provinces and states. However, this is a matter that affects the pure-bred breeder more than the average producer of wool and mutton. The industry, as it concerns farmers with commercial

#### **Political Prophesy.**

There was a time, we are told, when prophets could look into the future and discern, with some measure of accuracy, the probable turn of events. Prophesy is now a lost art, particularly when it has to do with elections, and the cleverest of politicians give up in abandonment because old axioms are no longer reliable, and they are without any known quantities upon which to base their deductions. Political equations were easy of solution in days gone by, for a certain amount of tradition plus a known quantity of campaign funds in a constituency equalled so many party votes, which meant a certain result. With tradition swept aside and men and women going to the polls determined to express their wishes without regard for political leanings or the promises of any party, there is only one way to be sure of the results, and that is to open the box and count the ballots. We have only met one man who actually knew what was going to happen in the recent Ontario elections, and his declaration was made subsequent to October 20, after the returns were in. A new era is dawning, and the surprises incident to elections will, no doubt, be duplicated in the conduct of future govern-

## The Farmer's Advocate and Home Magazine.

2084

THE LEADING AGRICULTURAL JOURNAL. IN THE

Published weekly by THE WILLIAM WELD COMPANY (Limited).

JOHN WELD, Manager.

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

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ments in this country. When some politicians awakened on the morning of October 21 and ascertained for certain that the experiences of the previous day were not a nightmare for a dream, they at once predicted that a Government could not be formed from the heterogeneous representation from the various ridings of Ontario. Some are now predicting that the Farmer-Labor Coalition will not be long lived; it is contrary to custom and unstable. Without venturing a prediction on our part, it is plainly evident that modern prophets are not taking public sentiment into consideration or appreciating the fact that the people of this Province are anxious for good government regardless of who forms it, and will deal harshly with any group or party who take measures to obstruct it. Whatever happens it is plain that the text books on political prophesy must be revised, and the art practiced in accordance with the modern freedom of thought and action.

smells. Many fox ranches have a tall tower from the upper chamber of which the keeper can overlook the pens and thus keep watch on his charges without being seen. Many female foxes are prone to become unduly excited when they have young pups and carry them about from place to place, thus sometimes causing the death of their family from exposure. In such cases some foxfarmers place a live chicken or rabbit in the pen to distract the attention of the mother.

Foxes mate when ten months old and have been found to continue prolific until about eleven years But one litter per year is produced and the of age. time of birth is from the middle of March to the end of May

There is great diversity in methods of feeding among different fox-farmers, and some breeders are inclined to attribute their success mainly to special methods of feeding. The fact, however, that foxes are kept in perfect condition on various ranches where quite different methods are practiced shows that no one prescribed diet is essential for success.

The articles of diet which enter into the menu of foxes on different ranches are horse meat, butcher's scraps, fresh fish, salt fish, rabbits, groundhogs, mice, chickens, biscuits, bread, vegetables, grass, porridge, berries, apples, milk and eggs.

The flesh diet is usually fed raw, though some breeders par-boil it. Sometimes carcasses are salted down in barrels, and a portion freshened in running water for a day or so when required for use, while at some ranches old cattle and horses are kept on the hoof and slaughtered as required. The amount of meat fed should be about a quarter of a pound per day, and this amount should be decreased if any of it is buried.

Some fox-farmers use patent dog-biscuits almost exclusively, others feed a good deal of plain "hard-tack," while with others bread with dripping on it is one of the standard diets.

Cleanliness is one of the essentials in successful feeding, and the dishes should be scalded and scrubbed frequently. The water vessel should be fastened to the fence with wire hooks so that the foxes cannot climb over it.

Bone and lime-water are fed to the young foxes to supply the salts for bone-formation. Broken and splintered bones are usually avoided because of the the danger incident upon their being swallowed.

When the foxes are less than a year old they may be fed about as much as they will eat, but when they are older too full a diet may render them too fat for good breeding condition.

Particular care is devoted to the feeding of the mother prior to the birth of the pups, and fresh milk, eggs, meat broth, bone broth, and well-cooked oatmeal are freely employed at this time, while similar nourishing diet is given while she is nursing.

The experience of most fox-farmers is that if the foxes are intelligently cared for they are healthy in confine-When the pups are shedding their milk teeth, which takes place when about three months old, trouble is sometimes occasioned by the formation of absesses at the base of the canine teeth. Giving the pups large bones to gnaw, and thus promoting the loosening and dropping of these teeth has been found to obviate this trouble

#### Advice to the New Government. BY SANDY FRASER.

Some time last spring, I think it was, I heard the first talk o' organizin' a branch o' the United Farmers of of Ontario in this corner o' the country that I happen to be livin' in; an' tryin' to mak' my livin' in. My grandfather's ticket ran oot when he got this far inta the woods, ye see, an' the conductor put him aff the train. If he'd had mair money when he left auld Scotland, a hundred years back, I might noo be farmin' up in Oxford or Middlesex counties wi' the rest o' the aristocracy, or maybe moved intae toon an' payin' an income tax.

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o' me signing yon document an' payin' oot my member o' me signing you document an payin out my members ship money for the chance o' gaein' to anither funeral. Where's yer doctor's certificate guaranteeing that this latest bairn o' yours will live ony langer than the rest o' them?"

o' themr "Sandy," he replied, "it's men like you that are going to prevent our finally bringing one of these 'bairns," as ye call them, to maturity. It's like everything else, ye have to learn by the mistakes o' the past. The fact that we failed once or twice is na proof that we canno succeed in the end. Did ye ever hear o' onything great being accomplished without its ups an' doons? being accomplished withour its ups an' doons? An' especially its doons. Pit yer name doon, Sandy," says he, "an dinna get discouraged juist as we are gettin' to the top o' the pile." "Weel," I said, "I dinna want to be a quitter in world are I have that the only way to fail to

my auld age. I ken that the only way to find the potatoes is to keep scractchin,' an' that those that get there are the ones that keep goin', sae here's to it, one mair. Gie us yer pen."

That's the way I am; easy like. But I ken I wouldna' hae felt right gin I had done onything else. It's up to us to keep pushin' while there's ony push left in us, I

And, as things hae turned oot, I canna say I hae much cause tae regret my action. It looks noo as though the top o' the hill was nearer than we counted on. We even have to rin the Government machinery wi'oot havin' had much in the way o' apprenticeship. But I've always found that the quickest an' best way to I've always found that the quickest an oest way a learn all about a gasoline engine, for instance, was to start her up an' get acquainted wi' her while she was daein' yer work. Na doot it will wark oot the same way wi' oor new legislators. Gin they want to dae what's right I'm no much afraid for onything else. Na danger, hut they'll get 'o's o' advice, onyway. I hae half a notion to be handin' oot some mysel'

I aften tell the auld wumman that the reason she never made mair o' a success in life was because she never took ony o' my advice. But she says she took it once, that time I advised her not to wait for the ither fellow, and that was enough for her. Which is no much in the way o' encouragement for me to start in to be givin' hints to the "Farmers.

But there's one thing that I'd like to say to them, if I never say anither. An' that is, don't go back on the Good Roads legislation. I've heard a few hints to the effect that the United Farmers were not too enthusiastic aboot spending sae muckle hard cash on the proposed great highway frae east to west o' the Province, connecting up the big cities alang the line; an' maybe they're right. I find it hard to turn doon ony scheme for improving the roads, no matter where it is planned to begin or end. But maybe it's too much money to be spending for what ye might call a trans-provincial motor road when we already hae the railroads. Some say that ye have to build the main line before ye can build the branches. But that is truer o' a railroad than it is o' the King's highway. I mind o' bein pathmaster once an' a chap who lived on the sideroad was going for me for putting all the work on the main road. "What the good o' that main road to me if I canna get to it," says he. 'And there's something in it. A concrete highway running frae end to end o' the Province wouldn't be o' muckle benefit tae the great majority o' us, unless it was in the way o' an example. It might be the means o' getting us to build roads to connect wi' it. That's for those that ken to say.

But what I'm drivin' at is this. Let us gie the Government to understand that we want improved roads all over the province as soon as it is possible for us to have them. This travelling through mud up the the axles in what is supposed to be a civilized country is played oot. We want every main road and side road and end road put in such shape that a chap can call them roads wi'oot apologizin' to his conscience. It will cost But it's a guid investment. as guid as a first mortgage at six per cent. And no to say onything aboot the improvement in oor moral nature. It's an unco' thing the way some men will be expressin' their feelings when they happen to get on to a bad piece o' a road an' they hae a blow-out or break an axle or something like that. The thing is, there is a tendency to economize among us farmers, which is a'richt in its place, but which has, money a time, been carried too far. And what I'm afeard of is that oor coming Government may get to working for a surplus in the Treasury sae hard that the Good Roads movement will hae to tak' a back seat for the time being. When the boys we hae sent up to Toronto get to strolling aroond through Queen's Park on the cement sidewalks an' across the paved roads they hae there, they may forget all aboot us stick-in-the-muds away oot on the back concession and gae in for politics. , But we're lookin' for better than that from them, for a year or twa onyway. I'll say that much.

#### Nature's Diary. A. B. KLUGH, M. A. FOX-FARMING (Concluded).

The kennel is usually placed in the centre of the pen, and the type most in vogue is a wooden structure consisting of two compartments. It is usually placed on skids a foot or so off the ground so that the foxes cannot burrow under it and hide. The outer compartment of the kennel is about 3 feet square, and has a rectangular entrance passage about 8 by 10 inches, and sloping down from the building to within a few inches of the ground. The inner compartment is made with double walls, and the space between them is filled with some non-conducting material such as the ground cork in which Malaga grapes are packed, sawdust, chaff, or dry leaves. The inner chamber is usually 18 inches square by 20 inches in height or 16 inches by 20 inches by 20 inches high, as it must be large enough to provide against over-crowding by the growing family and small enough to be warmed by the body heat of the animals. A bedding of dry leaves, grass or earth is usually placed in the inner compartment.

In the management of all animals success or failure depends to a very large extent upon the character of the person who handles them, and this is particularly true in the case of foxes which are at most only half domesticated and are nervous in temperament. The keeper must move cautiously and quietly about the pens at all times, and should, particularly in the breed-ing season, wear the same clothing as far as possible, so as to avoid the exciting influence of unusual sights and

Be that as it may the fact remains that I'm here in Glengarry, next thing tae Quebec, where we've always had to wait for the tide o' education an' civilization to sweep doon frae the West an' enlighten us as to oor duties an' opportunities.

I mind when the Patrons of Industry were having their day in the Province o' Ontario an' Lockie Wilson was puttin' on his armor to fight the battles o' the doontrodden farmer. Not one o' their organizers ever showed up around these parts until the "Patrons" had a club formed in every school-section between here an' Lake Huron. And it was the same wi' the U. F. O., as they Huron. And it was the same with the U.F.U., as they call it. (A chap has to be weel up in his letters these days, wi' their U.F.O. and their G.W.V.A. and their I.L.P. to say naething o' what they hae done wi' a' the rest o' the alphabet.) But when they finally got around to us some o' us that had been thinkin' the matter over were in a half notion o' not takin' onything to do wi' this U. F. O. I attended the first meeting to do wi' this U. F. O. I attended the first meeting in oor district an' when the chap wi' the paper cam' to me for my name I says to him: "Look here noo, my friend," says I. "Puttin' the 'Grange' an the 'Patrons o' Industry' an' a few Farmer's an' Breeder's Clubs together, l've joined in my lifetime juist aboot fifteen o' these organizations. And where are they all noo? Dead an' gone, ilka one o' them. Died a natural death, easy an' by stages, juist like that. Sae what's the use

Another milestone has been passed and Canadians have shown that they are ready to finish the job in the same spirit they began it. The Loan has been a success; and now let every citizen make it his business to see that the money is wisely and economically expended.

Live stock is the foundation of all agricultural prosperity, and over a term of years the returns from live stock will be comparatively good. A steady, permanent policy of production will net farmers more in the end than an ''in-and-out'' policy with no objective.

an' payin' oot my member-' gaein' to anither funeral. ate guaranteeing that this e ony langer than the rest

's men like you that are inging one of these 'baims.' It's like everything else istakes o' the past. The ce is na proof that we canna ever hear o' onything great its ups an' doons? An yer name doon, Sandy," iscouraged juist as we are

want to be a quitter in he only way to find the ,' an' that those that get join', sae here's to it, once

ike. But I ken I wouldna' onything else. It's up to e's ony push left in us, I

ot, I canna say I hae much t looks noo as though the an we counted on. We nment machinery wi'oot o' apprenticeship. But uickest an' best way to ine, for instance, was to ed wi' her while she was will wark oot the same n they want to dae what's ything else. Na danger onyway. I hae half a mysel'

nan that the reason she in life was because she But she says she took it not to wait for the ither for her. Which is no ent for me to start in to

I'd like to say to them, is, don't go back on the leard a few hints to the vere not too enthusiastic d cash on the proposed st o' the Province, cone line; an' maybe they're oon ony scheme for imwhere it is planned to too much money to be call a trans-provincial ae the railroads. Some nain line before ye can' truer o' a railroad than hind o' bein pathmaster the sideroad was going the main road. "What e if I canna get to it," ng in it. A concrete 'the Province wouldn't t majority o' us, unless It might be the means connect wi' it. That's

this. Let us gie the t we want improved on as it is possible for g through mud up tae be a civilized country, ain road and side road at a chap can call them nscience. It will cost id investment. Juist

### THE HORSE.

NOVEMBER 20, 1919

#### Feeding Horses Grain and Roughage of Poor Quality.

On account of the high price of hay, even that of only fair quality, there will be a great tendency on the part of the stock owner to feed his idle or partly-idle norses on that of poor quality and straw in order to be able to market the hay. Hence, it may not be con-sidered out of place to give a word of warning and make a few suggestions re the feeding problems that may confront the owner.

The feeding of large quantities of roughage of poor quality to horses is dangerous. Feed that can be consumed in large quantities with practical impunity by cattle, may cause serious trouble if given even in limited quantities to horses. This doubtless is largely due to the comparatively small size of the stomach of the horse. The feeding of hay that is over-ripe, dusty or musty, in considerable quantities, is very liable to cause digestive or respiratory diseases, or both. Some may ask, "How can the quality of the feed affect the respiratory organs?" This may be a reasonable question to ask, but when we understand that the stomach and lungs receive their nerve supply largely from the same pair of cranial nerves, we can more readily appreciate the fact that when, from any cause there is an often repeated or continuous irritation to the one, there is a strong liability of derangement of the other through nervous sympathy. Most horsemen know that the continued feeding of dusty or musty hay to horses, or an unlimited amount of hay of better quality to a greedy horse, is often followed by heaves. Some of us may remember that the haying and harvest seasons of 1912 and 1915 were very wet, and as a consequence a great deal of feed was of poor quality. During the fall and winter following these seasons the practicing veterinarians were kept more than ordinarily busy.

We have, on many occasions, warned readers against making sudden changes in feed, especially to horses, and we wish to repeat the warning. The time will soon arrive when many horses that have been at regular work for several months will commence a period of semi or complete idleness, and there will be a tendency to change the roughage from hay to straw or hay of poor quality. Where this change is made suddenly a con-siderable percentage of the horses usually show signs of digestive derangement in from one to two weeks. Where the change is gradually made, by feeding less hay and a little straw at first and gradually increasing the amount of straw and reducing the amount of hay each day until in 8 or 10 days a full ration of straw can be given, we find that sickness seldom occurs.

When either hay or straw that is being fed is either dusty or musty, means should be taken as far as possible, to avoid evil results. This can be done to a greater extent by thoroughly shaking with a fork in order to remove all loose dust, and then dampening with lime water before feeding. Where large numbers of horses are being fed this new concernes to the test much of horses are being fed this may appear to be too much trouble, but we must remember that the loss of a horse of the more or less serious impairment of one or more horses is more expensive than the necessary trouble in order to avoid such would have been. Lime water is made by slacking a lump of quick lime in a vessel, pouring water into the vessel and stirring the fluid thoroughly, then allowing it to stand, when the undissolved lime will settle at the bottom and the clear water on top is "lime-water." It is simply a saturated solution of lime in water, i. e., all the lime that the water will hold in solution. It cannot be made too strong, as the undissolved lime precipitates. A lump of lime twice the size of a man's fist is sufficient to make a barrel of lime-water. It will remain pure for a long time, hence may be made in large quantities and kept ready for use in a place where it will not freeze. Lime-water should be used on all roughage that is of the nature under discussion

## THE FARMER'S ADVOCATE.

drinking, but the water does not disappear, nor is he able to quench his thirst. If the water be in a pail or other small vessel, it will be noticed that the quantity is not becoming less, though he appears to be drinking heartily. He will masticate his hay or other feed in a normal manner, and make regular and apparently normal but ineffectual efforts to swallow. The masticated feed will be either quidded or impacted between the molar teeth and cheeks. He cannot swallow. In a variable time, from one to several days, symptoms of general paralysis appear, he lies or falls down and probably is unable to rise, delirium ensues, and in from to 3 days after the alarming symptoms appear he

When a case of this nature is observed, the cause must be sought for and removed. If due to the water, and pure water cannot be procured, that used must be thoroughly boiled. If due to feed, its consumption must be ceased. All horses that have been kept under the same conditions should be given brisk purgatives, followed by 4 to 6 drams of hyposulphite of soda, or 40 to 60 drops of carbolic acid well diluted, three times daily, and, of course, given feed and water of good quality. WHIP.

#### The Horse an Efficient Power Plant.

The horse is-next to man himself-the most efficient power unit in existence, delivering more effective motive energy in proportion to energy consumed than any other type of motive power unit, when the work done as a self-reproducing, self-repairing organism, is taken into account. Millions of horses have worked from the time they were 3 till they were 12 years old, without the expenditure of a delay for a self-reproducing the self-reproducing the self-reproducing the self-repairing organism. without the expenditure of a dollar for repairs; and this without the expenditure of a dollar for repairs; and this factor of long life must be taken into account in reckon-ing the efficiency of a power unit, for one which wears longest and with least expense for repairs has an ap-preciable advantage. From the economic standpoint, therefore, the horse requires a minimum of human labor in him enduction and here the maxie of least life and least in his production, and has the merit of long life and low repair cost,-factors important to low cost of production in any enterprise in which power in the form of horses may be used.

Wherever power is needed to move loads over

## LIVE STOCK.

Progress in breeding is made according to the judg-ment used in securing herd and flock headers.

Some well-bred animals have proved a failure be-cause their owner evidently thought that the pedigree would carry them along without much feed or attention.

Our English correspondent writes that for the year the value of pedigreed live stock exported from England totals  $\pounds 2,013,388$ , or 67 per cent. more than for a similar period last year.

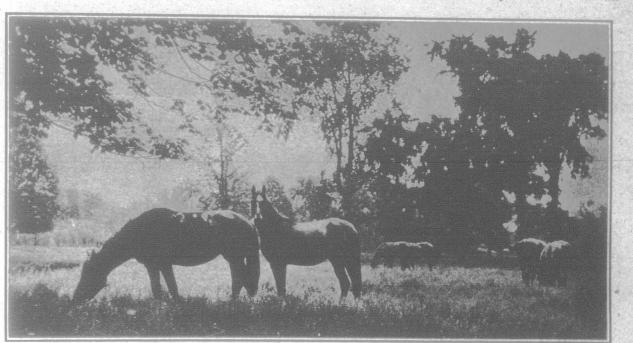
A live-stock breeder is not developed in a day or a week; a life-time is all too short. Take up the work where others have left off, and carry your chosen breed on towards perfection.

International Live Stock Show, Chicago, Nov. 29 to Dec. 6. Ontario Provincial Winter Fair, Guelph, December 5 to 11. Toronto Fat Stock Show, Toronto, December 11 and 12.

A. A. Armstrong's sale of Oxfords, held at his farm near Fergus, did not bring as high prices as was expected. The highest price for a shearling ewe was \$70; for a shearling ram and ram lamb, \$50; and the highest for a ewe lamb was \$42:50. The flock of 100 head averaged

In Tenn. 54 Angus cattle made an average of \$1,049. The three-year-old bull, Black Balatum, brought \$7,500. Andrew's Shorthorns, of Ind., averaged \$1,345. A son of Lord Avondale sold for \$5,000. Ten head of Shorthorns from Lespedeza Farm went under the hammer for a total of \$30,300, while 30 head averaged \$1,610. F. R. Edwards' 51 Shorthorns realized \$56,550.

Does docking and castrating pay? On Wednesday, Nov. 5, Mr. Wallace, of the Paris District, shipped 77 grade lambs to the Union Stock Yards, Toronto. There was a particularly heavy run of lambs that day on the market and trade was dull. Up to the time of the



ix per cent. And no' vement in oor moral way some men will be ley happen to get on ae a blow-out or break

y to economize among place, but which has, far. And what I'm renment may get to ury sae hard that the tak' a back seat for

p to Toronto get to Park on the cement oads they hae there, n-the-muds away oot in for politics., But rom them, for a year

ssed and Canadians finish the job in the n has been a success; t his business to see omically expended.

of all agricultural rs the returns from good. A steady, l net farmers more y with no objective.

Grain of poor quality also can be rendered less dangerous by treating with lime-water, but it is still safer to boil it or have it rolled or chopped, and treat with boiling water a few hours before feeding.

In order to winter idle horses cheaply there will be a great tendency to feed silage. Silage of good quality fed to horses in reasonable quantities, mixed with cut hay or straw or with chaff, gives excellent results, but we wish to emphasize the fact that in order that it may be safe for horse feed it must be of first-class quality. Silage that has not been properly made or has been frozen, or the surface of which has been exposed for considerable time, tends to mold quickly. Any feed that contains mold and feed or water that contains decaying animal or vegetable matter, as moldy silage, hay or straw, moldy corn stalks, partially decayed roots, water containing decaying animal or vegetable matter, etc., if fed to horses in even small quantities for any considerable length of time, will probably cause a disease known as "Cerebro-spinal-meningitis." Dusty or dirty feed will not cause this. It is no doubt due to a germ that exists in mold or decaying matters. It is a disease peculiar to equines. No successful treatment has been discovered for a well-established case. Some cases yield to treatment if given in the very early stages, but a very large percentage of cases end fatally. In rare cases the disease appears suddently and the patient dies in a few hours, but in most cases the symptoms develop slowly and the patient lives for a few days after the first symptoms, which are usually an inability to swallow. When attempting to drink the animal apparently performs the normal acts, he keeps his lips in the water, and makes the normal sounds of a horse

#### Some Light Horses on Pasture in Oxford County.

fields or roads, emergencies arise where the power required to move the load becomes three or four times normal. Horses excel in such emergencies, for they can, in a pinch, exert a tractive pull equal to more than three-fifths of their live weight, or can, for a short time, pull an overload of 300% to 400%. In this the horse s unequalled, for no other type of motive power can handle more than a 100% overload, This capacity to sustain an overload is of incalculable value in field work, especially in the spring season, when fields may be in perfect condition for work, save for occasional irreguarly distributed soft spots. Horses go through these with ease, because of their reserve power, and this gives a reliability possessed by no other power unit used in field work. In city work, also, particularly on cobble-stone paving, a pair of big drafters can handle an 8-ton load on a 2-ton truck solely because of the overload capacity they possess, which enables them to start the load, 10 tons in all, which, once started, can be drawn without difficulty. This ability to exert 3 or 4 times the pull usually required is therefore a distinct economic advantage.

The great flexibility of power in horses is especially valuable on the farm. One eight-horse team on a double disc with a harrow behind, may later be broken into two four-horse teams for seeding or into one pair for planting and a four for harrowing, and an extra pair for general work; or a little later into four separate teams for cultivating. No other source of power in actual use on the farm has this flexibility; and the same applies to hauling for, when six-horse teams are needed on heavy loads, they can be used readily, but can be broken into three teams and put on three separate jobs when necessity requires.—Wayne Dinsmore, Secretary Percheron Society of America.

arrival of this load, a few lots had sold for \$13.75 per hundred, but in the main the run of lambs was going at \$13.00 to \$13.50 per hundred pounds. To make a long story short, Mr. Wallace topped the market with his load, because each one was properly docked and cas-trated. They were sold for \$14.25 per hundred pounds -a good 75 cents more per hundred than the average price for that day. The lambs averaged 82 pounds in weight, -were well fitted, and it was claimed by the sheep buyers on the Stock Yards that it was the first carload of lambs arriving at the Yards this year that did not contain a percentage of ram lambs. T. HETHERINGTON.

#### Tuberculosis.

Figures are not available to enable one to reckon the number of animals affected with tuberculosis or T. B. as the disease is commonly called. Nor is the annual loss to the live stock industry, from this scourge, known. However, it is a fact that the loss is enormous, and that the disease is to be found in most unsuspecting The germs are by no means confined to poorly aces. ighted, damp places, but abound in up-to-date stables. Registered animals are as susceptible to the plague as are grades, and the loss is heavier with the fromer. From a physical examination alone it is impossible to definitely detect the presence of the disease, unless symptoms are very marked as in the last stages of the trouble, consequently affected animals may remain for years in a herd, spreading the deadly germs without the owner becoming aware of the fact. The most definite way of detecting the trouble is to apply the tuberculin test. Many breeders test their herds and eliminate reacters so as to avoid danger of spreading the trouble

to the remainder of the herd. While the test is fairly reliable there are instances where a diseased animal does This is the weak point, but it is the best known method of detecting the disease and, if properly made, few diseased animals will escape detection.

If we are to develop an export trade in breeding animals it is essential that a close tab be kept on the health of our animals. American breeders require that our cattle going into their country pass a sixty-day retest. If the animal has not been tampered with, and a reliable make of tuberculin is used a breeder is assured that an animal passing this test is clean. Considerable trade has been carried on between Ontario and Western breeders. But if this is to be developed the animals must have a clean bill of health. It has been intimated that some stock imported into the Western Provinces have not been as healthy as they should have been. If there is a particle of suspicion that everything is not right some of our best markets for pure-bred stock will be lost. But, from a breeders standpoint, one cannot afford to harbor tubercular animals in the herd.

The treacherous part of the disease is that an of the disease is that an animal may be thrifty and look all right, yet be a spreader of the germs. Such an individual in the herd is a dangerous one to retain. It will be noticed that at some sales of high-class stock the animals are sold subject to retest. There is a reason. Men building up a clean herd can afford to pay more for stock that has passed the test than for doubtful Many propositions. breeders test their herds regularly, and are able to cater to the big trade. It requires the concerted effort of all breeders to reduce this disease to the minimum. Instead of abating at the present time, it is spreading Let us make use apace. of the best means at present known to detect the trouble in our herds.

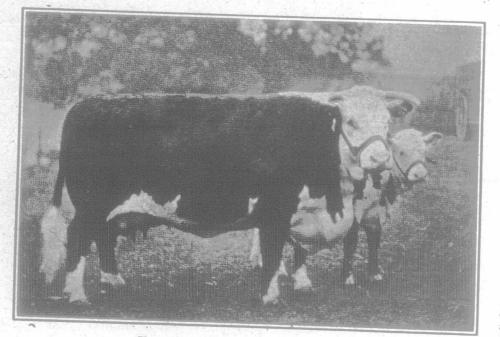
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There is some complaint of unscrupulous breeders not using the test justly.

plaint of unscrupulous breeders not using the test justly. Animals have been suspected of being "plugged" or treated so that they will not react within a certain time. This has given rise to breeders insisting on a sixty-day retest. Honesty in the test is needed. Imported stock frequently reacts. It is well known that tuberculosis is more prevalent in the herds of England than on this side of the water, but the breeders apparently do not take it as seriously. The climate may have something to do with it. No matter where the diseased animal comes from, nor how valuable, it is a menace to our cattle industry if it carries the germs of tuberculosis or other infectious disease. Herds have been dispersed, because of the ravages of this trouble, the owners suffering heavy loss from richly-bred animals the owners suffering heavy loss from richly-bred animals having to be slaughtered. However it is better to take the first loss than to run the risk of spreading the germ. A stable cattle industry requires healthy stock. Our climate is as rigorous and healthy as any. What is needed is the distruction of germ-spreading animals so that the danger of our healthy stock becoming in-fected is negligible. Selling breeding animals known to be infected to an innocent unsuspicious breeder who is probably just starting into pure-breds is a crime worthy of severe punishment. Honesty is a good policy in the cattle business as in all other lines of industry.

Is the Fall Litter Profitable. EDITOR "THE FARMER'S ADVOCATE":

Many think that the fall litter is not profitable and that it is better policy to raise and fatten one litter a year. The advisability of raising the fall litter depends largely on the time litters are born, equipment and feeds available. Fall litters should not arrive later than September, as the weather during September gives the September, as the weather during September gives the small pigs ample chance to exercise outside, and they can be well weaned before the real cold weather sets in. Litters that are born later must be provided with dry, comfortable quarters, as cold and dampness go hand in hand with unthrifty pigs. Litters housed in a cold pen, huddle together and do not exercise. Dampness tends to coughing and rheumatism, with the result that at six weeks, instead of shiny-coated, full-blooded pigs that scamper here and there about the pen you have pigs that scamper here and there about the pen you have anaemic pigs, lacking in vitality that have to be stirred out of their nests. Such pigs usually get worse after



Typey Hereford Cow and Her Calf.

weaning, and if they survive the winter are most ununprofitable feeders.

A low straw shed, if properly constructed, is dry and warm. It should provide a good sleeping place for the sow and litter, sufficient space for the little pigs to take exercise, and the approach should be from the south so that the cold winds are shut out.

The spring litter, as soon as it leaves the nest, roots about in the earth, eating worms, bugs and grass. This is denied the fall litter, and no matter how carefully the sow may be fed, the conditions are more or less un-natural. To overcome this, a couple of sods daily— if they have been previously stored—will be found of reat interest to the youngsters. Sliced roots, cabbage eaves or well-cooked potato peelings and, in fact, anything green may be scattered in small quantities on the Aside from the food and corrective value of green feeds, they help to make the pigs take exercise, as, even if they do not eat them, they will spend a lot of time rooting about among them. When two to three weeks old, little pigs usually begin to eat food, and some skim-milk should be fed in a small trough in a creep separate from the sow. Gradually add some sifted oat chop and shorts.

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it sufficiently to meet their requirements. Skim-milk is of prime importance for the fall litter and success is of prime importance for the fall litter and success cannot be expected if it is dispensed with. Add sufficient sifted oat chop and shorts to make a thin slop. As the pigs get older, more meal can be added and when well weaned barley chop may be added to the oats and shorts. The feed should always be given warm, in fact better results are obtained by warming all feed for fact, better results are obtained by warming all feed for pigs during the winter. Feed only what the pigs will clean up readily. Salt should be fed regularly. The following mixture may be placed in a box in the pen, or fed a handful in the feed for every 6 or 8 pigs: 50 lbs. common salt, 1 lb. sulphur, 2 lbs. powdered wood charcoal, 10 lbs. slacked lime.

The man who raises the fall litter must expect that his finished pork will cost him more than pork reared during the summer because he cannot utilize the cheap feeds to the same advantage. On the other hand, he has a good chance to get a higher price for his pork as it is ready for market when a fewer number of hogs as it is ready for market when a fewer number of hogs are being offered. Brood sows are also more apt to be regular breeders if raising two litters a year. Con-sequently, the man who is properly equipped, grows most of his own feed and is a good feeder should produce winter pork at a good profit.

A. A. MCMILLAN,

#### Maintenance of Accredited Herds.

Both in Canada and United States an effort is being made to eradicate tuberculosis from the herds. What is known as accredited herds are being established in both countries under the supervision of the Health of Animals Branch of the Department of Agriculture. We understand that in the United States a large number of herds have been entered under this scheme and undoubtedly it will be popular in Canada, at least it should The following regulations for the establishment and maintenance of tuberculosis-free accredited herds of cattle sent out by F. Torrance, Veterinary Ditrctor-General, Ottawa, are self explanatory. 1. A tuberculosis-free accredited pure-bred herd is one which has been tuberculin tasted by the sub-

is one which has been tuberculin tested by the subcutaneous method, or any other test approved by the Veterinary Directory General, and applied by the regular-ly employed veterinary inspectors of the Health of Animals Branch of the Federal Department of Agri-culture. Further, it shall be a herd in which no animal affected with tuberculosis has been found upon two affected with tuberculosis has been found upon two annual or three semi-annual tuberculin tests, as above described, and by physical examination.

2. The entire herd, or any cattle in the herd, shall be tuberculin tested or retested at such time as is con-sidered necessary by the Veterinary Director General.

3. No cattle shall be presented to the tuberculin test which have been injected with tuberculin within 60 days immediately preceding or which have at any time reacted to a tuberculin test.

No herd shall be classed as an accredited herd 4. in which tuberculosis has been found by the application of the test, as referred to in paragraph 1, until such herd has been successfully subjected to two consecutive test with tuberculin, applied at intervals of not less than six months, the first interval dating from the time of removal of the tuberculous animals from the herd.

Prior to each tuberculin test satisfactory evidence of the identity of the registered animal shall be presented to the inspector. Any grade cattle maintained in the herd or associated with animals of the herd, shall be identified by a tag or other markings satisfactory to the Veterinary Director General.

6. All removals of registered cattle from the herd, either by sale, death or slaughter, shall be reported promptly to the said Veterinary Director General, giving the identification of the animals, and, if sold, the name and address of the person to whom transferred. t the transfer is made from the accredited herd to another accredited herd, the shipment shall be made only in properly cleaned and disinfected cars. No cattle shall be allowed to associate with the herd which have not passed a tuberculin test approved by the Veterinary Director General.

August Hillcres Buttero Heifer o Butterf White ] Maggie Roan B Crimson Maple Ont

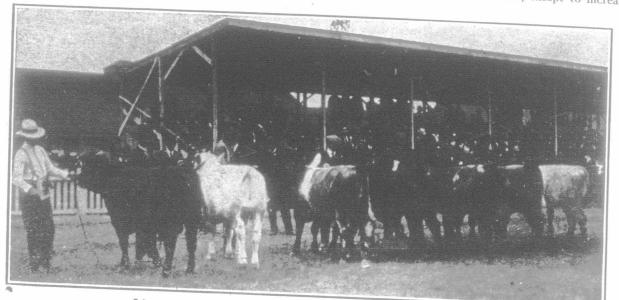
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of Onta Guelph to the p not near the qua Larkin's 4th, th tional \$660 bid Farms of average J. D. La non, T. and A. selling to Elm Par Middleb Elm Pai Elm Par Trojan d Balmed Elm Par Zora of Balmedi Balmedi Lady Ch Heather Alloway Springfie Springfie Burnsid Burnsid Middleh Alloway Balmed Balmedi Balmedi Balmed Balmed Liza of Liza of Mayflor Tartan Liza of Queen Elm Pa Elm Pa Rosey Forest Pride o Stumpic Bravo's ]

A clean herd should be the aim of every breeder.

Toronto is to get the big National Winter Show, but the location does not alone insure success. The stockmen must get behind it in a body.

Fall litters should not be weaned as early as spring litters, in order that they may be stronger and more accustomed to eating before weaning. Ten weeks would not be too old. If the pigs are vigorous at weaning time, there is no reason why any serious difficulty should be experienced. When weaned at ten weeks of age they are already accustomed to eating and little change need be made in the ration, except to increase



Line-up of Shorthorn Senior Bull Calves at Toronto. Augusta Supreme, shown by Geo. Amos & Son, Moffat, is standing at the top of the line.

All milk and other dairy products fed to calves shall be that produced by an accredited herd, or, if from outside or unknown sources, it shall be pasteurized by heating to not less than 150° F. for not less than 20 minutes

8. All reasonable sanitary measures and other recommendations by the Federal authorities for the

control of tuberculosis shall be complied with. 9. Cattle from an accredited herd may be shipped to the United States accompained by the certificate of the Veterinary Director General, without further tuberculin test for a period of one year, subject to the rules and regulations of the State of destination.

10. Strict compliance with these methods and rules shall entitle the owner of tuberculosis-free herds to a certificate, "Tuberculosis-Free Accredited Herd," to be issued by the Veterinary Director General. Said certificate shall be good for one year from date of test unless revoked at an earlier date.

11. Failure on the part of owners to comply with the letter or spirit of these methods and rules shall be considered sufficient cause for immediate cancellation of co-operation with them by the Federal officials.

12. Whenever in carrying out this order it is necessary to slaughter an animal or animals for the eradication of tuberculosis from a herd, the animal or animals shall be valued and compensation awarded as provided in Sections 6 and 7 of the Animal Contagious Diseases Act.

Persons desiring to enroll their herds under these regulations should apply to the Veterinary Director General, Ottawa, who will forward the official forms.

uirements. Skim-milk all litter and success d with. Add sufficient nake a thin slop. n be added and when added to the oats and s be given warm, in y warming all feed for ly what the pigs will e fed regularly. The in a box in the pen, every 6 or 8 pigs: 50 2 lbs. powdered wood

tter must expect that ore than pork reared nnot utilize the cheap On the other hand her price for his pork fewer number of hogs e also more apt to be itters a year. Conerly equipped, grows feeder should produce

#### A. A. MCMILLAN.

#### dited Herds.

ites an effort is being the herds. What is being established in ion of the Health of nent of Agriculture. States a large number this scheme and unda, at least it should he establishment and accredited herds of Veterinary Ditrctor-

ted pure-bred herd tested by the subest approved by the oplied by the regularof the Health of epartment of Agriin which no animal en found upon two ulin tests, as above ion. le in the herd, shall

such time as is con-Director General. d to the tuberculin uberculin within 60 ch have at any time

an accredited herd nd by the applica agraph 1, until such to two consecutive vals of not less than g from the time of rom the herd.

itisfactory evidence l shall be presented maintained in the the herd, shall be satisfactory to the

tle from the herd, shall be reported Director General, nals, and, if sold, whom transferred. redited herd to shall be made only No cattle shall s. d which have not by the Veterinary

#### NOVEMBER 20, 1919

#### Bricker's Shorthorn Sale.

C. Bricker, of Elmira, disposed of 35 Scotchbred Shorthorns at very satisfactory prices, on Thursday, November 6. There was a big crowd in attendance at the sale, and the good things sold quickly. The highest-priced animal of the sale was Princess Pat, a five-year-old Cruickshank cow about due to freshen. a five-year-old Cruicksnank cow about due to treshen. She is a heifer of show calibre and went to the \$1,000 bid of J. J. Elliott, Guelph. Missie's Marquis, the herd sire, a deep-fleshed, stylish individual, with show-ring conformation, went to the bid of C. J. Stock, Tavistock, for \$635. He is a Missie-bred bull, sired by Golden Marquis, and considering his quality he was a bargain with price. In the sale were animals of such broading at the price. In the sale were animals of such breeding as Mysie, Mina, Waterloo Princess, Miss Ramsden, Miss Buckingham, Clementina, Matchless and Lovely, and with these bidding was brisk at all times. The and with these blocking was block at all times. The thirty-one animals selling for over \$100 brought a total of \$9,340. There were only two or three youngsters which sold below the \$100 mark. Following is a list of the animals selling for \$100 and over, together with the names and addresses of the purchasers:

Missie's Marquis, C. J. Stock, Tavistock. Elmira Mildred, R. S. Robson & Son, Denfield..... Elmira Mysie 2nd, Geo. Nesbitt, Palmerston...... \$ 635 White Mysie, Wm. Stephenson & Son, Science 275

295

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390

FIII	
Roan Mysie, A. & G. Forbes, West Mo	ntrose
Princess Pat. I. I. Elliott, Guelph	7
Waterloo Princess 39th, Wm. McLean,	Kerwood
Bull calf, Chas. Rutherford, Wallenstei	n
Mina Ramsden, W. B. Annett, Alvinst	01
Polly Buckingham, Wm. Swanson, Roo	kwood
Heifer calf, J. F. Husband, Rockwood.	RW00U
Clementina Empress, Wm, McLean	
Royal lilt's Pride 2nd, W. B. Annett	
Mina Wreath, I. I. Elliott, Guelph	
Fanny Claire B, J. J. Merner, Seaforth	1
Matchless 12th, R. S. Robson & Son	
Lady O'Argyle, A. & G. Forbes	
Lovely Erin 2nd, W. R. Elliott & Son	Guelph
<b>Dashwood Beauty, W. B. Annett</b>	
May Beauty, V. Snider, Waterloo	
August Rose, A. & G. Forbes.	
Kirklevington 46th, Alex. Withers	
Hillcrest Mina, Wm. McLean	
Buttercup 2nd, Ed. Scroggie, West Mon	ntrose
Heiter call, Stanley Campbell, Palmers	ton
Butterfly Beatrice, Ed. Scroggie	
White Blossom, Milton Weber, West M	ontrose
Maggie May 4th, C. J. Stock	
Nuali Dutterny, Ed. Scroggie	
Crimson Duke, Geo. Allandorf, Mooref	eld

#### **Ontario Aberdeen-Angus Breeders** Sale.

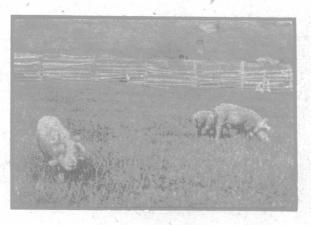
On Wednesday, November 12, the Angus breeders of Ontario, held an auction sale in Winter Fair Buildings, Guelph, at which they offered some of their best things Guelph, at which they offered some of their pest things to the public. The crowd was not large and bidding was not nearly so brisk as it might well have been considering the quality of the offering. The top of the sale was Larkin's year-old heifer, Stumpie of Larkin Farm. 4th, the junior champion female at Toronto Na-tional. She is a sweet thing, and went to the **\$660** bid of G. C. Channon, of Oakwood. The Larkin Farms consignment made considerably the highest Farms consignment made considerably the highest average, it being \$400. Among the consignors were J. D. Larkin, Lowe & Heibein, J. Bowman, G. C. Chan-non, T. B. Broadfoot, Robt. McEwen, K. Quarrie, and A. Cox. The following is a list of the animals selling together with name and address of purchaser.

## THE FARMER'S ADVOCATE

## Live Stock Prices in Great Britain.

Statistics concerning pedigreed Shorthorn cattle sales in Scotland this year reveal an extraordinary demand. All told, 1,062 bulls have been sold for £224,have realized £26,411 13s. 8d. or £216 9s. 9d. each; 122 cows have realized £26,411 13s. 8d. or £216 9s. 9d. each; 48 two-year-old heifers have made £10,203 8s. or an average of £212 11s. 5d. each; 161 yearling heifers have fetched f34,328 6s., or £213 4s. 4d. apiece; and 317 heifer calves have aggregated £79,530 3s. or £250 17s. 7d each. In all, 1,710 head of Scots beef Shorthorns have returned £375,392 19s. 8d., or an average of £219 10s. 6d. To prove how values have appreciated of late years, it can be recalled that in 1890 some 1,153 head averaged £25 7s. 3d.; in 1900, 915 head realized £31 3s. 5d. apiece;  $\pounds$ 25 7s. 3d.; in 1900, 915 head realized £31 3s. 5d. apiece; in 1910, the 1,301 sold made £46 1s. 11d. apiece; in 1915, the 1,403 disposed of were returned at £51 17s. 6d. each; in 1916, 1,558 head made £75 15s. 9d. each; in 1917, 1,472 fetched £99 6s. 7d., and in 1918 the 1,651 sold realized £138 13s. each. Highest price for bulls this year was the £5,565 paid for one of William Duthie's calves; two cows made £787 10s. this year; one two-year-old heifer also fetched a high price; one yearling heifer realized £1,102 10s.; one heifer calf made £2,100 at J. Durno's sale, and another £1,470 at the Aberdeen October joint sale. October joint sale.

Champion Shire colt foal at Peterborough sale, on October 25, realized 1,250 guineas. This was paid for a son of Champion's Clansman, a rising young sire by Childwick Champion.



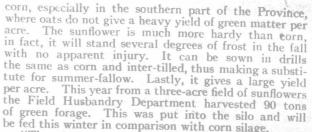
#### A Pig in a Poke.

Argentine and Danish bull buyers were in evidence at Birmingham Shorthorn sale where E. N. Casares

at Birmingham Shorthorn sale where E. N. Casares gave 2,000 guineas for Mr. Raphel's Shenley Fidle Marshal, and 1,700 guineas for Sir Herbert Leon's Blatchley Sentinel. Both bulls go to Buenos Aires. Sir Owen Philipps got 750 guineas for Kilsant Crown. Strong store cattle made up to £43 10s. in Shrews-bury, or some 76 shillings per live cwt. They were Shorthorn-bred cattle of nearly 11½ cwts. each. Here-ford steers made 8½ cwts. and fetched 68 shillings per live cwt live cwt.

Agricultural land still continues to fetch big prices in Britain. The Kerry estate, in North Wales, realized f180,000, or £50 per acre. A belt of timber was sold for £60,000; Lord Harlech's estate, in Montgomeryshire, realized £54,060, or an average of £55 per acre. Some small holdings made up to £80 an acre. The Fernhill estate made £100 an acre for pasture fields, and £52 an acre for "mixed" farm lands. ALBION.

THE FARM.



per acre. This year from a three-acre field of sunflowers the Field Husbandry Department harvested 90 tons of green forage. This was put into the silo and will be fed this winter in comparison with corn silage. "The crop was produced at the following cost: Disking, \$3.42; harrowing, \$1.69; seeding, \$3.90; thin-ning, \$5.25; cultivating, \$0.72; weeding, \$0.30; cutting, \$22.25; hauling and ensiling, \$138; cost of seed, \$4.80. This makes a total of \$186.40 for 90 tons, or \$2.09 per ton. There was no cost for land charged up against ton. There was no cost for land charged up against the crop as the land would have been summer-fallowed, and, therefore, not producing, had it not been put in sunflowers."

#### Is the Simplification of Law Possible?

EDITOR "THE FARMER'S ADVOCATE":

EDITOR "THE FARMER'S ADVOCATE": There has come into my hand recently a small pamphlet entitled "Law Reform" which contains some food for thought. The writer begins by saying every.man, woman and child is vitally concerned about each and every law, but that as a matter of fact they are ignorant of what the laws are and have to be con-stantly consulting lawyers. As he says, "If a tenant puts a pump in the well he does not know whether he owns the pump or whether it belongs to the landlord. If your neighbor's chickens destroy your flower bed, you do not know whether to send the rest of the flowers to the neighbor or keep the chickens." At one time if a man wanted to borrow money he had to have a lawyer man wanted to borrow money he had to have a lawyer draw a document or bond which expressly stated what the penalties would be if the loan were not paid according to the terms mentioned. That time is past. Now, if you want to borrow money, all you have to do is to fill up a small slip of paper or sign a note; no elaborate legal document is required and you do not have to consult a lawyer in the matter. Is it not possible that the simplification of law which has taken place in this particular matter might be extended to many other matters? At the present time if you buy houses or real estate you have to fill up a very elaborate document called a deed. Is this necessary? Is it any more neces-sary than the loan bond was in former days? As the writer remarks "stockbrokers transfer millions of dollars the penalties would be if the loan were not paid according writer remarks "stockbrokers transfer millions of dollars worth of stock in one minute, while it takes two lawyers a week to transfer the title of a ten dollar burial plot," and he suggests the following document as applied to the transer of land: "In consideration of one thousand dollars I hereby transfer all my right to the east half of lot fourteen in the second concession of the township of Brighton, County of Northumberland, unto James Young, and my wife bars her dower." Not being a Young, and my wife bars her dower." Not being a lawyer I do not venture an opinion as to whether or not such a document would be sufficient. But those who have been impressed as I have with the tediousness and prolixity of our legal phraseology will welcome any sug-gestion of this kind. It is possible that the writer of this pamphlet goes too far, but it seems quite apparent to me that some very marked reforms might be made in our laws and legal documents which would conduce to our laws and legal documents which would conduce to economy, and certainly this is no time for waste of any kind.

I venture to suggest another thought in this connection which is not dealt with in the pamphlet to which I have referred. It is this: that if our statute laws were of a more general character and their inter-pretation left more to the judges than they are at present justice might be more frequently done. I remember reading once of a comparison between the number of lawyers and laws in Switzerland, and those of the United States. In the former country laws were relatively few and lawyers were few. The application and the interpretation of the law was left more to the individual judgment of the judges and, consequently, fewer lawyers were needed, whereas in the United States the laws were so many and so varied and so minute in their details that it was practically necessary to have a very large number of lawyers. There is indeed something to be said for the old Hebrew custom of appealing to the judge sitting in the gate. He was given the duty of applying and interpreting a very concise and simple law. Conditions have changed of course, since that time and something of a more detailed character is probably necessary, but as it was said of the making of books that there is no end, so it may be said of the making of laws. Our statute laws are even now so voluminous that it is practically impossible for any one to become acquainted with all of them. And as for our common law it is even more impossible to become acquainted with the basis therof in the multitudinous "procedents and cases", upon which this law has been established. It is indeed reported of a certain Lord Chancellor in England that he exclaimed: "God forbid that I should know the law." And if such a one cannot compass the law what chance is there for either a layman or a common lawyer to do so? Not being a lawyer and without any extensive knowledge or intensive study in this subject I cannot dogmatize. The matter, however, is one in which the ordinary man is interested, and if it were possible by simplification of our laws and by bringing our legal documents up to date to save time and money and reduce the number of lawyers necessary such would be worth while. At all events I submit these statements and ideas for what they are worth. W. C. GOOD, Brant County, Ont.

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tagious Diseases

Elm Park Bert, B. Becks, Manitoulin. \$200 Middlebrook Rover 10th, Jno. Shield, Wingham 275Elm Park Pat, J. G. Sharp, Terra Cotta... 295 Elm Park Punch, Wm. Darroch, Palmerston Trojan of Alloway 2nd, A. Cox, Belwood. Balmedie Lad, T. S. Doyle, Guelph. Elm Park Baron, D. R. Thomson, Iona Station. 185 165 140 190 Zora of Alloway, J. A. McLeod, Plainville. Balmedie Pride's Boy, W. J. Fasken, Elora Balmedie Gamrie, J. A. McLeod, Cobourg Lady Cheerful of Larkin Farm 2nd, W. J. Fasken. 100 140145 Heather K. 2nd, Kenneth Quarrie, Belwood. Alloway Rose, Geo. Stoddard. Springfield Kindness, W. J. Fasken Springfield Mayflower, A. W. Beattie, Blair. Burnside Maid 4th, Sir Edmond Walker, Lefroy. Burnside Maid 8th, A. W. Edwards, Watford..... 250250Middlebrook Pride 25th, Jno. Shield 285 Alloway Trojan, Wm. Darroch. 180 Balmedie Pride 7th, K. C. Quarrie.240Balmedie Pride 7th, K. C. Quarrie.240Balmedie Pride 8th, W. J. Fasken.140Balmedie Pride 9th, C. K. Jarvis, Milton.375Balmedie Pride's Beauty, J. A. McAllister, Guelph.190Balmedie Mortich.P. Packe.150 Balmedie Morlich, B. Becks. 150Liza of Sunny Acres, Lewis Beer, Arthur 160 Liza of Sunny Acres 2nd, Lewis Beer. 265Mayflower of Innerleithen 3rd, W. H. Thom, Auburn 315 Tartan Madonna 4th, B. Becks. 270Liza of Sunny Acres 3rd, Geo. Stoddard Queen of Maple Bank, A. Barber, Guelph 110 Elm Park Beauty 5th, Geo. Stoddard. Elm Park Pride 19th, G. C. Channon, Oakwood 400Rosey Bright 6th, L. Beer. 215Forest Farm Fair Lady, L. Beer 140 Pride of Larkin Farm 4th, W. French, Elora. 460 Stumple of Larkin Farm 4th, G. C. Channon 660 Bravo's Peer of Larkin Farm, W. French ..... 180

#### Sunflowers for Silage.

Experiments are being extensively conducted to ascertain the value of sunflowers as silage and to determine just how successfully they will replace corn in regions where the later is not sufficiently hardy to make its cultivation practicable. In some parts of Eastern Canada, in New Ontario and throughout the West, sunflowers may be found a valuable silage crop, but so far the matter has not got beyond the earliest experimental stage in Canada. Nevertheless farmers in northern latitudes where corn does not do well should follow these investigations closely for the results so far are promising.

Peas, oats and vetches have been found a good substitute where corn could not be produced successfully, but sunflowers may surpass that mixture in yield and thus, if as strong or stronger in feeding nutrients, prove it to be superior for silage purposes. A representative of "The Farmer's Advocate"

visited the Manitoba Agricultural College during the month of July, this year, and there saw growing three acres of sunflowers for silage purposes. Results have been awaited with considerable interest, and recently a report has come to hand. Prof. T. J. Harrison, Head of the Field Husbandry Department of the College, comments on the experiment thus:

"To make live-stock raising profitable, it is necessary to have some succulent feed for winter use. In the West field roots have never been in favor because of the cost of production and the difficulty of storing. Silage growing has not been an unqualified success, because corn is not hardy in all parts of the Province. In an endeavor to solve this problem the Field Husbandry Department of the Manitoba Agricultural College has been growing and ensiling different crops: Corn, oats, millet, sundan grass, sunflowers, etc. So far sunflowers give promise of being one of the best substitutes for

JAS ORDIM ILUT

#### **Corn Experiment** in Lincoln County EDITOR "THE FARMER'S ADVOCATE":

2088

Under the auspices of the county branch of the Ontario Department of Agriculture, a corn variety test was conducted on my farm in Lincoln County this past

season with a view to ascertaining the variety of silage corn best suited for the Niagara Peninsula. The corn was all planted on June 4, and cut on October 4. Following are the comparative results:

Weight at auttin BAILEY.	
Weight at cutting Dry weight, two weeks later Maturity of ear at cutting	
GOLDEN GLOW. Weight at cutting Dry weight two weeks later Maturity of ear at cuttingdo	8 lbs
WHITE CAP VELLOW DENT	on ones
Weight at cutting Dry weight, two weeks later Maturity of ear at cutting	8 lbs 5 lbs ripe
WISCONSIN NO. 7. Dry weight, two weeks later Maturity of ear at cutting	18 lbs. 12 lbs.
LONGFELLOW. Dry weight two weeks later	ripe 11 lbs.
SALZER'S NOETH DAKOTA	9 lbs.
 Weight at cutting Dry weight, two weeks later Maturity of ear at cutting	11 lbs- 8 lbs, ripe

Wisconsin No. 7, therefore, appears to be the most vigorous and able to withstand the drought better throughout the season than any of the other varieties. Lincoln Co., Ont. ROBT. W. DOUGLAS.

## Britain Getting Anxious.

The effect of the labor troubles in the U. S. A. is being felt upon the food situation in Britain. Shipments of the new "pack" of bacon have been delayed by the strike. The British Government's imports from the Sates are chiefly wheat, butter and bacon, together with eggs and dried fruits in small quantities. Canned meats and fruits, condensed milk, wheat and oatmeal products are largely imported on private accounts. American wheats are now due to come forward in considerable quantities.

The St. Lawrence ports of Canada will soon be closed by ice, leaving only Halifax and St. John available, and these are places without facilities for handling large grain shipments. It is customary in the winter for much Canadian wheat to come to England through the United States, and so, if transport is obstructed and the situation becomes more serious, special measures will have to be taken to maintain our rather limited stocks. Grain would probably have to be given preference by the Ministry of Shipping in the arrangement

The British Ministry of Food is buying butter to the value of £1,500,000 in the United States, but if the country has to wait for this addition to its supplies, no serious ill effect will follow. Most people in England have grown accustomed to being without butter.

Bacon stocks are fairly good, but the quality leaves much to be desired. If the American shipments of port of bacon to other countries can be stopped, and the supplies reserved for home consumption. ALBION.

The fo' swing paragraphs are quoted from the circular, and explain the method by which the calves in this instance are purchased, and also give an idea of how club meetings may be conducted:

'Any plan for conducting a calf club should look to the education of the club member as well as to the development of the dairy interests of the community. It should assist the home and school in developing good citizens, as well as provide practical information in dairying.

#### EXTENDED OWNERSHIP PLAN.

"In the extended ownership plan each club member feeds and cares for a heifer during a period which will extend beyond the time of first freshening. An opportunity is thus afforded for a more extended educational enterprise than is possible under the short-time plan.

By the time the heifer freshens, the club member will have had considerable experience in caring for his animal, and as a member of a club he will have received, ammal, and as a member of a club ne will have received, studied, and discussed the literature sent, out by the Junior Extension Service. He should then be able to cope with the problem of the care of the cow at calving time. Information will also have been sent to him on the subjects of calf-raising, economical milk production, weighing and testing of milk, and the organization of testing associations. These subjects will have been thoroughly discussed in the regular club meetings.

"It will add greatly to the interest and ultimate success of a club organized under this plan, if some commercial organization will provide the club with one or more pure-bred bulls. In this way, the foundation may be laid for a community breed association.

#### SHORT-TIME OR AUCTION PLAN.

"In the short-time, or auction, plan, a bank or other commercial organization obtains the names and signatures of all boys and girls eligible to membership who wish to secure calves. Each member of the proposed club purchases a heifer and gives an approved note for the purchase price of the animal. The heifer is fed for a specified period, such as six months or a year. An auction is held at the end of the feeding period, at which each club member may sell his calf. The difference between the original investment plus other expenses, and the selling price, represents the returns for labor and profit. Each member reserves the right to bid in his own calf at the auction.

FOUNDED 1866

- 5. The dairy sire:
- a. Selection: type and pedigree b.
  - Care Feed
- с.
- d. Management.
- Cow-testing associations a. History and development b. Organization
- C.
- Economic and social benefits. Community breed associations: 7.
- History and development Organization
- а. b.
  - Economic and social benefits,

#### AUTOMOBILES, FARM MACHINERY AND FARM MOTORS.

## The Horse as a Motor.

We hear a great deal about the gasoline engine, the tractor and the automobile, in comparison with the horse that for hundreds of years has been doing farm work all over the world. Very few people consider the horse as a machine, or a motor, for the simple reason that it possesses life. At the same time it is possible to consider the horse as a machine in which the feed consumed supplies the energy, which may be transformed into work when the horse is hitched to various machines or vehicles. Viewed as a machine, the horse is certainly a wonderful piece of mechanism. A self-feeding, self-controlling, self-maintaining and self-reproducing motor, it is at the same time capable of efficient service. Combustion must take place in the body of the animal, as in the interior of a motor, but because it takes place at a much lower temperature, a much smaller proportion of the heat value of the fuel is lost in the case of the horse than in the case of an ordinary engine. Consequently, a large percentage of the feed eaten by the horse is converted into work; a much larger percentage, in fact, than is possible with

The animal is really made up of a highly-complicated system of motors, consisting of muscles, which are aided

in their action by joints, and other provisions of nature which enable the animal to obtain a leverage during action. A muscle exerts its force in only one way, that is, by contraction, resulting in a pull, and for this reason muscles are arranged in pairs, as illustrated by the biceps and triceps of the forearm. This action of muscles has been likened to a steam plant, which, when working, converts a large amount of energy generated in the fire-box into mechanical energy, but as soon as the engine is stopped and the flow of steam from the boiler stops, the temperature rises rapidly.

The strength of muscles is considerable and may be illustrated by the biceps which acts upon the forearm. This muscle acts while at a



The Low-swung "Sloven" Wagon. A handy rig for trucking about the farm.

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#### CANADA'S YOUNG FARMERS AND FUTURE LEADERS.

#### How Boys and Girls Clubs are Conducted in Illinois.

With the increasing number of boys' and girls' clubs being formed in Canada during the past year or two, especially the calf, sheep and pig clubs, it is interesting to read a circular from the Illinois College of Agriculture, telling how these clubs are organized and developed in the United States. In Illinois the membership is open to any young person between the ages of ten and eighteen years. Each member of the club is supposed to enrol as a member, secure a calf, and keep monthly to enrol as a member, secure a call, and keep monthly records of feed, gains, labor, and other interesting items, to exhibit the calf, and to file a final report with the leader of the club. The objects of organiza-tion are stated to be as follows: 1. To teach boys and girls the general principles of thrift, application, and perseverence: 2. To assist boys and girls to take part in the movement for better dairying 3. To bring such in the movement for better dairying; 3, To bring such agencies as breed associations, dairy associations, banks, and other commercial organizations, and the public school system, into close touch, in their effort to help boys and girls in work of community interest. a

"Organizing the club and securing calves for the members are only the first steps in a successful calf club. The club organization should embody educational as well as financial features. With this purpose in mind, meetings should be held at least once a month in a convenient place for the purpose of discussing the progress of the work. Increased interest in these meetings may be aroused by the occasional presence of an outside speaker to address the boys and girls on some special daily topic. The local club leader and advisory committee should assist the club officers in arranging for this part of the work.

"The following list of subjects is suggested. Information on these topics will be furnished upon application to the Junior Extension Service."

- 1. Care of the calf for the first six months:
- Weaning the calf а. b.
- Changing to skim-milk
- Grain rations for calves
- Roughages for calves d.
- Calf diseases
- f. Housing of calves.

Feed and care of the heifer from six months of age to time of freshening:

- Grain, roughage, and pasture
- Developing the heifer
- Time and age to breed
- Preparation for calving.
- Care of cow and calf at time of freshening: Economical milk production:
  - Feeding, feed records
- b. Care
- Housing с. d.

  - Weighing, testing milk, and method of keeping records.

arm as a lever of the second class, so-called, with a right angles with the upper leverage of one to six. That is to say, the distance from the point of attachment of the muscle to the elbow is but one-sixth of the distance from the hand to the elbow; thus, a man is able to hold within the hand, when the forearm is held horizontally, a weight of fifty pounds, which necessitates an exertion of a 300-lb. force by the muscles. Sometimes the pull of the muscles as they act over the hock joint of a horse may amount to several thousand pounds. It is possible for the ox to develop only about two-thirds as much power as a horse, because he moves at a much slower speed.

The horse is well adapted to driving or overcoming horizontal resistance, but is not so well adapted for carrying loads. Man, on the other hand, can carry loads almost equal to that which can be carried by a horse, but even though the body is bent well forward he can drag but a small fraction of the load a horse can pull. The difference is in the shape of the skeleton; that of man being in the form of a column, suitable for bearing a load, while that of a horse is spread more or less horizontally so that he is able to draw upon a cart a load several times his own weight. The amount of resistance that a horse can overcome depends upon his own weight, his grip, his height and length, the direction of the trace, and muscular development.

The heavier the horse the greater the load he can pull, if only for the reason that he will adhere more closely to the ground. When a horse is pulling strenuously the tendency is to lift his fore feet from the ground, and occasionally it will be of assistance in enabling a horse to pull a heavy load, for the teamster to get on his back, thus helping the animal to hug the ground. One must, of course, use sufficient common sense in such a case and avoid doing more than giving the animal the necessary assistance. A weight heavy enough to become a burden, or interfere with the free drawing

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#### NOVEMBER 20, 1919

## THE FARMER'S ADVOCATE.

power of the horse, would be likely to counteract the value of the added weight.

Weight will add to the horse's grip upon the ground, but at the same time if a horse be poorly shod and travelling upon a smooth surface, the amount of grip he can get will be negligible. Thus, horses that are expected to draw loads on icy roads cannot get any grip of the road without sharp calks upon their shoes. A common dirt road is excellent for drawing loads, for the reason that even when in the best condition for the wagon it enables the horse to get a good grip with his feet. Some roads are much more difficult for the horse to grip than others.

A low, long-bodied horse has a considerable advantage over a tall, short horse for heavy drawing work. He can use his weight to better purpose. Furthermore, if the weight of a horse is well to the front he can do more efficient work because there is a tendency to use the rear foot as the fulcrum of the lever, and the body is thus balanced more or less over the rear foot. To prove that weight in front is an advantage it is only necessary to remember that when a horse is pulling heavily he shows a tendency to lower his head and assumes more or less of a crouching position.

It would be easier for a horse to pull a load that is well within his power to move if the traces were horizontal. That is to say, if the traces extended straight backward from the point of his shoulder, instead of down to the level of the doubletree, the horse could pull a moderate load easier than when the load pulls down upon him. But when the load does pull down upon him it also helps to hold him to the ground, so that in the case of a heavy load, as horses are hitched, they have the advantage not only of their own weight and the grip they can get upon the road-bed, but of this downward pull, which gives them added power, although it requires a little more power to pull the load. The average horse will walk from two to two and

The average horse will walk from two to two and three-quarter miles per hour, and at the same time overcome resistance equal to about one-tenth or more of his weight. Work may be performed at this rate for ten hours a day. Assuming this to be true, a 1,500pound horse will perform work at the rate of one horsepower. But 1,500 pounds is much above the average weight of a farm horse, which is about 1,100 pounds. Such a horse will work at the rate of about two-thirds to four-fifths horse-power.

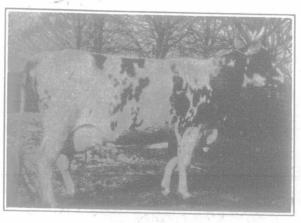
## THE DAIRY.

#### Is the Cheese Industry Declining?

A letter recently appeared in "The Farmer's Advocate" calling attention to the fact that a number of cheese factories in Western Ontario have recently been put out of business as such, and the milk transferred to condensed or milk powder factories. Cheesemen have complained a great deal during the last three or four years that the cheese industry is being threatened by the many purchases of factories. The other day we discussed this matter with F. Herns, Chief Dairy Instructor for Western Ontario and Secretary of the Western Ontario Dairymen's Association. Mr. Herns has a record of every factory in Western Ontario and was able to tell us almost exactly the number of factories purchased during the last five years, those which have been sold to milk product companies during the present year, and new factories that have been built in the last five years.

We find, for instance, that the Brooksdale factory was sold three years ago; Thamesford about five years ago; West Zorra about three years ago. The Hickson was turned into a milk powder factory. The Burnside factory was sold five years ago; Nilestown was sold in 1918; Harrietsville was sold four years ago, and the Mount Elgin factory five years ago None of these factories were actually closed down they are all acting as receiving stations for one or more of the milk product companies. To this list must also be added Glanworth, which has been turned into a subsidiary powder plant. Of all the factories purchased prior to 1919 in Western Ontario only the Culloden factory, purchased in 1918, and the Northwood factory, purchased in 1917, have actually been closed down and are now not receiving milk or making cheese. Two other factories, one at Avon, which was practically closed last year, and another at Bookton, which was closed two years ago, have both opened up again this year, the former having a larger make of cheese than during the last six or seven years.

districts about Brockville and Chesterville. Whether or not the situation is one to alarm those interested in the development of the cheese industry is a question that may be open to discussion, but those who have watched the development and progress of the dairy industry in Ontario for the last thirty years are inclined to believe that the situation will right itself naturally within a reasonable length of time. It is interesting, for instance, to note the development of the cheese industry in Ontario during the years of the war. Cheese is a concentrated milk product which was in immediate demand just as soon as war broke out. In 1915 we find that the production of cheese in Western Ontario was higher than it had been for many years, owing to the fact that cheese was commanding a good price. It is evident that at that time the cheese factories were paying relatively higher prices than could be paid by powder and condensed milk factories, because the latter had not yet found such a favorable market as they



#### Betsy Brown. Grand champion Ayrshire female at the Western Fair, London, 1919. She has three mature R. O. P. records, the largest one being 14,469 lbs. milk, testing 4.3 per cent. and 631 lbs. fat. Owned by A. S. Turner & Son, Ryckman's Corners, Ont.

are at present apparently enjoying. With the development of the foreign market for condensed, evaporated and powdered milk, these branches of the industry were in a position to demand and utilize a greater proportion of the milk supply, and as a result they have bought out several cheese factories in suitable localities as the easiest and most peaceable means of securing an adequate milk supply.

It is by no means certain, however, that the demand for these products will continue as at present, although it is probable that the demand will continue greater than before the war. Should the demand fall off, patrons would probably not find the market for milk so good`at the powder factories and condenseries, with the result that cheese may again become relatively more profitable for them. Should this be the case they will have to build new factories for themselves, which, of course, will be an inconvenience.

which, of course, will be an inconvenience. The only fault we see about the whole situation is that if the cheese factory is sold outright to the milk products company, one of the markets for milk formerly open to the producer is closed. It is perfectly true that the making of cheese is only a means to an end, and that it is the total production of milk, and not the relative



or whatever else may offer the best market. To do this it is almost necessary that factories be owned cooperatively by producers, because only in this way can the milk be swung into various channels with the least inconvenience.

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#### Ontario's Position in Dairying.

Those who wish to speak in a complimentary manner of the Province of Ontario often call it the "banner" Province of the Dominion. Certainly this seems to be correct phrasing as regards the dairy industry. Officials of the Ontario Department of Agriculture tell us that in 1918 milk to the value of \$74,427,300 was produced in Ontario. There are, for instance, 970 cheese factories, which, in that year, took in 1,369,897,671 pounds of milk, from which was made 121,173,086 pounds of cheese, valued at \$30,293,271. Butter factories numbering 160 handled 736,336,800 pounds of milk, and manufactured 28,714,352 pounds of creamery butter, valued at \$14,357,189. Nine condensed milk factories utilized 157,803,513 pounds of milk, valued at \$3,519,000. Five milk powder factories handled 56,233,145 pounds of milk, valued at \$1,258,040.

Thus, in addition to \$25,000,000 worth of milk used in 1919 for the manufacture of ice cream, dairy butter, and required for rural consumption, the dairy factories of Ontario are seen to have taken in 2,320,270,939 pounds of milk, valued at \$49,427,500. Of 1,568,200 milch cows, furnishing milk to dairy factories in Canada, practically half, or 712,788, are located in the Province of Ontario. When we consider that the number of cows furnishing milk to factories is only forty-four per cent. of the total number in Canada, it is easily to be seen that Ontario can boast of well over a million dairy cows. In Ontario there were in 1917, 45,114 butterfactory patrons, 40,237 cheese-factory patrons, and a total of 96,255 patrons for all dairy factories in the Province. A vast quantity of whole milk goes from the dairy farms of Ontario annually to supply the city milk trade. Just what quantity is produced for this purpose it is very difficult to estimate, but Toronto alone with its 500,000 people has approximately a hundred milk distributors, a few of whom are doing business of very large size.

The dairy breeds represented in the Province are the Holstein, Ayrshire and Jersey, principally, with a few Guernseys. The percentage of pure-bred cows of these breeds is slowly but steadily increasing, although there are still hundreds of farms whereon the grade Shorthorn ranks as the representative of dairying, and often, it must be added, to some purpose. Ontario has every reason to be proud of what her pure-bred dairy cattle have done. Outstanding representatives of each of the three prominent dairy breeds owe their activity to the "banner" Province of the Dominion. May Echo Sylvia, with a record of more than 1,000 pounds of milk in seven days, 152.1 pounds of milk in one day, and 12,899.8 pounds of milk in 100 days, was bred in Eastern Ontario; and it was in Ontario also that she achieved world championship honors. Among the bonnie Ayrshires we immediately find Jean Armour, bred in Oxford County, and the first cow of the breed to make a record of 20,000 pounds of milk in one year. Not only does this record stand to her credit, but the Jean Armour family shows a combination of show-ring form and heavy-producing qualities that is seldom met with. And then among the beautiful Jerseys we find Sunbeam of Edgeley,

Sunbeam of Edgeley, bred only a few miles north of Toronto, in the County of York. Sunbeam of Edgeley as a four-year-old stow produced 18,744 pounds of

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e load he can adhere more ulling strenun the ground, in enabling a ter to get on the ground. non sense in ng the animal y enough to free drawing Of the six factories purchased in 1919, only one has actually been closed—the Belmont factory. The factories at Verschoyle, Corinth, Westminster, Gladstone and Mapleton were all bought by a milk powder company, but the milk of patrons is still being received at these factories and then transferred to the powder factory.

Only one factory that has stopped making cheese in the last five years is still owned privately as before; this is the North Oxford factory, where the owner receives the milk of the former cheese factory patrons and transfers it to the milk powder factory. New factories have been built at Glen Myer, Eden, Cranbrook, Mount Elgin, Union Star and Brunner, while it is probable that two others will be built at Springfield and Gad's Hill. The decrease in the number of factories operating is, therefore, not so large as one might expect, especially since, so far as we could find out, only three factories have been built.

From what we can understand, the situation is much worse in Eastern Ontario, particularly in the



#### Verschoyle Cheese Factory.

One of the biggest cheese factories in point of business in Western Ontario. Sold in 1919 to a firm manufacturing milk powder. Photograph taken in July when cheese was still being made.

quantity of butter, cheese or condensed milk manufactured, which is really the important thing. Milk production, and not cheese-making or butter-making, is the basis of the dairy industry, but at the same time it is always a good policy to keep the road open to more than one market. In our judgment it would be a good thing if all the factories which have been sold during the last few years had been retained by the producers themselves, or in some way controlled by them, so that if at any time cheese manufacturing offered a more profitable outlet for the milk, cheese-making could again be resumed. In the case of the North Oxford factory, this is still possible, although at present the milk is going away from the cheese industry. Dairymen should be prepared to take advantage of the varying demand for milk, and should be able to turn the volume of their supply either to cheese-making, market milk, duced 18,744 pounds of milk, containing 926 pounds of fat, in one year, which is the highest record made by any Jersey cow in any of the provinces of Canada. Both the Holstein-Friesian Association of Canada and the Canadian Jersey Cattle Club have their headquarters in Ontario, and the great bulk of their membership also.

While a great deal has been accomplished in the development of the dairy industry of Ontario, there is still much more to be done. Not long ago we came across a dairyman of the

County of Oxford whose average yield from seventeen cows for the year 1917 was 9,923 pounds of milk. These were grade cows raised on the farm and always bred to pure-bred sires. For more than fifteen years no single cow has been bought for this herd, but consistent grading up has accomplished a notable result. Doubtless other dairymen could be found whose careful work has brought them similar results, but for the great mass of Ontario dairymen there is still much to be done. Some very large dairy herds are to be found over the Province. In the recognized dairy districts, such as Dundas and Oxford Counties, in the eastern and western portions of the Province, respectively, it is very common to see herds comprising thirty or more cows. Milk cheques from the cheese factory or condensery sometimes run up to **\$1,000** or more per month when the flush of milk is

n in June, and on one Oxford County farm that we know of 2,200 pounds of milk were being sent daily to the cheese factory in June, 1919, from a herd of sixty-five grade and pure-bred cows. The farm was 400 acres in size.

Perhaps the three great needs of the dairy industry in Ontario can be truly described as labor, organization and quality. Labor at the present time is a very serious handicap. Rural Ontario has been denuded unmercifully of its rural manhood, and before agriculture can "come back" the farms of the Province must have more men wherewith to till the fields. Dairying is dependent upon man labor, and dairying has, therefore, felt the lack of labor as acutely, if not more so, than any other branch of agriculture in Ontario. Our Governments have pledged themselves to the policy of securing suitable agricultural labor by immigration, and the dairy industry in the Province of Ontario should offer a good opportunity for the emigrant. Organization is not utterly lacking in Ontario, and, in fact, has been proceeding with great rapidity during the last few years. The dairymen's associations of Eastern and years. The dairymen's associations of Eastern and Western Ontario have been supported by the Govern-ment for many years, and have done a great deal of good work for the industry. The Ontario Milk and Cream Producers' Association is doing now, as a com-paratively new organization, a splendid work for milk producers that requires only time and enthusiasm to bring to a successful conclusion bring to a successful conclusion.

Educative work such as these organizations could do in the way of improving dairy practices, encouraging the use of labor-saving machinery, stabilizing prices by advocating the payment for milk on the quality basis, could easily within five years' time increase the net return to the dairymen of Ontario by twenty-five per cent, annually. The elimination of the scrub bull, improvement in feeding methods, the use of the Bab-cock test in eliminating the boarder from the hard cock test in eliminating the boarder from the herd, each have their place in any scheme for improvement. There is no lack of opportunity for developing Ontario's dairy industry. Labor, organization and still more quality in our products is all that is needed to bring about the desired result.

## More About Milking Machines.

We are continually meeting with some new expression of opinion as regards milking machines. There is no disputing the fact that the number of milking machines in use is steadily increasing, as are the number of finning machines firms manufacturing them. While it is perfectly true that one can find from one end of the country to the other a great many farms where milking machines have been purchased and are not now in use, it is also true that the milking machine has solved the labor problem to a considerable extent for very many hard-working dairy farmers, during the past four or five years. We are convinced that the milking machine will increase rather than decrease in poularity as manufacturers continue to make it more perfect in response to the sugges-tions and complaints of users, as well as the investigations of their own mechanical experts. We feel that the milking machine will prove of great assistance to farmers who have a sufficient number of cows milking steadily to warrant the installation of a machine, and who would give it the necessary care and attention. A machine that is used for such an important purpose, and which has to do with the yield of such a vital human food, and one so easily contaminated, must of its very nature be more exacting in the care which it requires than most other machines used about the farm. We are in receipt of a recent bulletin from the California Experiment Station from which we quote the following paragraphs as further evidence of the practicability of milking machines where the necessary care and attention is given to them

"Milking machines have now been successfully operated in dairy herds in different parts of the country for more than a quarter of a century, and in many enerations of cows have been milked by machines during this period. Owing to the difficulty of securing efficient and reliable milkers in recent years, especially while war conditions prevailed, machine milking has been adopted in a rapidly increasing number of American dairies during this period, and there are now perhaps few dairy sections in the country where milking machines have not been installed and are operated successfully. "Practical experience with milking machines and numerous investigations of the work of different makes of machines conducted by experiment stations during the last decade or two have fully established the practicability and the economy of modern milking machines by this time; as a result, there is at present a consistent and, in many sections, a rather rapid transition from hand to machine milking in American dairy herds. This transition is retarded in some cases by a doubt in the minds of dairy farmers, perhaps especially by owners of valuable pure-bred herds, as to whether the cows will do quite as well when milked by machine as by hand, and whether machine milking will not necessarily have a tendency, at least in the case of some cows, to reduce their milk production for entire lactation periods as compared with hand milking, even if this wentd not be sufficiently marked to interfere appreciably with their future usefulness as dairy producers. Failures if certain milking machines in the case of individual and the fact that conditions and results obtained

results of carefully conducted experiments at our own and other experiment stations, and is also borne out by the experience of practical dairy farmers in all parts of the country during the past dozen years or more At the present time there are eight different makes of milking machines on the market in this state, anyone of which may be confidently expected to do satisfactory work in the hands of a careful operator. Failures in machinemilking have been rather numerous in the past, from a variety of causes, chief among them being perhaps the fact that the owner did not fully understand the mechanics of the machines or appreciate the necessity of care in operating and keeping them clean, or of following up the machine-milking promptly by careful stripping. Of late years the failures have, however, greatly decreased in number, as the machines have been further improved in simplicity and efficiency, and the conditions for their successful operation are better understood. It is safe to say that a dairyman who introduces machine-milking into his herd with any standard make of machine on the market is now as much on trial himself as is the machine. The best remedy for failures in machine-milking is to become thoroughly familiar with the machine adopted, its adaptation to individual cows, and the requirements for keeping it in a mechanically perfect and sanitary

"Milking machines have not as yet been as generally adopted in the dairy districts of our country as, for instance, in Australia and New Zealand. According to reliable reports received, there are but few dairies of over thirty cows in these countries that are not milking by mechanical means, and many smaller dairies are likewise using milking machines. With the present scarcity of reliable, efficient milkers, and the high cost of labor, feed, and dairy supplies, the necessity of re-ducing the cost of milk production becomes greater than ever before. It is possible to do this by either or both of the following methods. By increasing the production of the dairy herd through culling, use of good purebred sires and the modern methods of feeding and management, or by reducing the operating expenses of the dairy. The milking machine is an important aid of the dairy. The milking machine is an important aid in reducing these expenses. The days of hand-skimming of milk are long gone by, and everything points to the fact that we have now entered upon an era of machinemilking. It is the next step in the economical, efficient management of fair-sized or large dairies, and the experience of other dairy countries in regard to milking

machines will undoubtedly be duplicated in this country. "The investigations of this and other experiment stations have shown that milking machines properly operated do not injure the udders of cows, or cause garget or other udder diseases. Udder troubles are garget or other udder diseases. Udder troubles are often due to causes that are not in any way associated with the method of milking practiced; they will occur at times in machine-milked, as well as in hand-milked herds, although less frequently when ordinary care is taken in operating the machine. The best way to avoid troubles of this kind in case of machine milking is to remove the machine as soon as no more milk comes to remove the machine as soon as no more milk comes down, and to finish the milking by hand without un-necessary delay. Prompt and careful hand stripping is a most important factor in successful machine milking, even though the machine used leaves only very small amounts of milk to be stripped out.

"In the selection of the particular make of machine, number of points should receive consideration, besides first cost and nearness to service agency, such as cost of up-keep, depreciation, simplicity of mechanism and cleaning. The various machines on the market differ considerably with regard to these points, and it is evident that no one machine stands out above the others in all respects; also that any farmer with a fair degree of intelligence and resourcefulness need not he sitate to install a milking machine in his dairy if he keeps twenty or more cows. In many cases it may prove advantageous to adopt machine milking also in dairies of twelve to fifteen cows, as it will make the owner less dependent upon or entirely independent of hired hel saving in the cost of milking by machine over hand milking is, however, greater in the case of large herds than with small ones, and will, in general, be in pro-portion to the size of the herd. It has been shown that with proper care, and with careful, prompt hand-stripping, milking machines will have no appreciable effect one way or the other on the dairy production of the cows or on the general welfare of the herd, but they will not long render satisfactory service with careless handling and lack of cleanliness. For this reason, milking machines are most likely to prove successful when operated by the owner himself or by help directly interested in their success."

fore he can secure the best results. If he has a month or so with the pullets before they begin laying he will be in a fairly good position to know just about what they

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The flock should be divided up carefully, where division is necessary, and if at all possible pullets should be put into the pens where they are going to stay for the remainder of the season. It is foolish economy to put into the laying pen birds that are not strong and vigorous. The careful poultryman will make selections from time to time during the growing season, gradually eliminating the weaker birds, so that by the time the flock goes into its winter quarters none but the strongest and most likely looking birds remain. There is not much use in putting immature birds into the winter-laying flock because what is wanted is pullets that are mature and ready to produce eggs when the prices are best.

The average farm flock should contain somewhere in the neighborhood of one hundred laying hens, since this number can be carried economically on the average farm and will not require a great deal more attention than a much smaller number. The whole flock can, in such cases, be kept together in one pen if necessary, although for the highest individual production of eggs it would be better if there were four flocks of twenty-five each or at least two pens of fifty each. Where labor, however, is at a premium the larger number per pen will be found a little more economical.

So far as winter management is concerned, the problem which the poultryman has to face is to imitate as nearly as possible spring conditions in the winter. He must endeavor to make the environment of the flock such as will enable the birds to do their best without suffering unduly from the cold, or becoming weakened from too long confinement in stuffy quarters. Feeding is very important, and during the wintertime hens will require feeds that are more apt to keep them warm than those they should have in the summertime. Feeding will vary to a certain extent with the breed, but in general corn is a better winter feed than a summer feed, because it enables the birds to maintain the body heat and will also help to keep up normal production. Hot mashes fed twice a week during the very cold weather will help the birds to keep themselves warm, and have been found to have a very pronounced effect upon the production of eggs. Birds that are closely confined or prevented from ranging during the winter must be supplied with plenty of green and succulent feed, as well as plenty of fresh water and a ration in which variety is a distinctive characteristic. The feed should be in sufficient quantity to supply the demand for heat and for the raw materials used in egg production. It must be plentiful enough to keep the birds in good condition, not very fat and ce tainly not thin.

Exercise is a primary requirement for the hen that is expected to lay more than a small' number of eggs. The good layer is always a hard worker; she belongs to the industrial classes, and shows it by the continual expenditure of energy from the time she gets off the roost in the morning until she finds it again at night. She is continually scratching and busying herself from the beginning to the end of the day, storing up food materials for the formation of eggs. Exercise, therefore, is not something than can be dispensed with, and if necessary, the hens must be forced to take it by making them work for their feed. The lighter breeds are easier to handle in this respect, because they will be more apt to take plenty of exercise of their own volition. The heavier breeds, however, are more sluggish by nature and must be forced to work for their feed to a greater extent than the lighter breeds. Better results can be obtained where the birds are kept in light, airy ouses, and forced to scratch in fairly deep litters for their feed, than where they are turned out for exercise on ground that is wet and chilly.

Other items in the winter management of poultry include such things as health of careful attention to details. It is absolutely necessary that cleanliness be observed, because dirt of any kind leads to the introduction of vermin and disease. The litter should be changed fairly frequently, at least three or four times each winter. If, when the flock is put into laying quarters in the fall, about three inches of clean litter is put on the floor, this will gradually wear down and some fresh litter can be added from time to time, on top of the old. The best material for the farm flock is undoubtedly clean, short straw because this hides the grain better than almost anything else, birds can eat it if they want to without becoming cropbound, and besides it looks clean in the poultry house. If fresh litter be added from time to time it will not be necessary to crean the house so often, provided the house is well ventilated. "

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## POULTRY.

## Essentials in Securing Winter Eggs

Pullets that have been well reared should mature in about six months, and it is good practice, as a rule, to put them into their winter laying quarters at about five months of age. This is desirable because it gives them an opportunity of becoming accustomed to new surroundings. In most cases they will have spent the List five months of their lives running freely over the farm, or such parts of it as they cared to visit. If, therefore, they are expected to begin laying as soon as maturity has been reached it is only good business to bring them in a little early so that they may become fully accustomed to being cared for under confinement, and to new kind of feed and a new type of surroundings. In addition to this, every careful poultryman, just the same as any other live-stock man, wants to get acquainted with his stock and must be more or less acquainted with it la

#### Value of Trap-Nest. DITOR "THE FARMER'S ADVOCATE":

That it might encourage beginners, I give here the results I have obtained frem five years trap-nesting for high egg-production. I only run a small plant to occupy my spart ime. I raised 16 pullets and sold 6 of them in 1918. The ten pullets laid to 31st October, 2,034 eggs. At 60 cents per dozen, the value of eggs is over \$100. The cost of feed at \$3 a bird is \$30, leaving a profit of \$70. These pullets have a few weeks to go to emplete their pullet year. The highest pullets are No. 1, 260 cggs; No. 76, 254; No. 74, 235; No. 77, 218 cggs. It is interesting to note that although I started with the best bred-to-lay steck I could buy the highest the first year of trap-nesting was only 123. This is an example of what can be done with the trap nest I have a ren of pullets in the World's Egg-Laying Contest, con mencing November 1, 1919, at Ottawa. Frontenac Co., Ont. F. J. COLDHAM.

If he has a month or egin laying he will be just about what they

up carefully, where possible pullets should egoing to stay for the possible economy to put t strong and vigorous. selections from time gradually eliminating ne the flock goes into strongest and most re is not much use e winter-laying flock that are mature and ces are best.

contain somewhere d laying hens, since cally on the average deal more attention he whole flock can, ne pen if necessary, production of eggs flocks of twenty-five each. Where labor, number per pen will

is concerned, the to face is to imitate ions in the winter. nvironment of the o their best without becoming weakened quarters. Feeding intertime hens will keep them warm summertime. Feedh the breed, but in nan a summer feed. tain the body heat production. Hot very cold weather es warm, and have ed effect upon the closely confined or winter must be succulent feed, as ration in which The feed should demand for heat

g production. It he birds in good t thin. or the hen that is number of eggs. er; she belongs to

y the continual she gets off the t again at night. ying herself from storing up food Exercise, therepensed with, and ake it by making breeds are easier ey will be more eir own volition. ore sluggish by r their feed to a Better results ept in light, airy deep litters for out for exercise

nent of poultry lock, sanitation

#### November 20, 1919

#### A Precocious Bird.

EDITOR "THE FARMER'S ADVOCATE":

I am sending you a little record of one of my pullets. Can it be beaten? She was hatched from an incubator May 1, 1919, started to lay September 9, and yesterday, November 6, we found her in the cornfield with a flock of 9 chicks. She is a Partridge Rock on Laird Bros.' farm, Chatham Township. A. SUBSCRIBER'S WIFE. [Note.-While the achievements of the pullet men-

## THE FARMER'S ADVOCATE.

tioned by our correspondent are quite within the range of possibility; we have no record to match the feat. Perhaps others have.—EDITOR.|

## HORTICULTURE.

A representative gathering of fruit men from all over Canada met while the late ''Dan'' Johnson was Fruit

Commissioner, and decided on a standard apple barrel for the Dominion. This put an end to an contentious matter which existed for years and it was an exceedingly good move. However, some of the old Nova Scotia barrels, which are small in size, have been in use this fall and the Fruit Trade Commissioner in Liverpool cabled on October: "Urge every possible effort to hold back old Scotian barrels. Few coming forward cause endless trouble when values approximate maximum and tend depreciate values for standard barrels."

## Color and Quality Mark Revival of Ontario Horticultural Exhibition. Ontario Fruit Growers in Convention Enjoy a Practical Program Covering Many Live Topics.

The Ontario Horticultural Exhibition is again to be numbered among the regular agricultural events that take place throughout the year in Ontario. For several years before war came to wreck all peaceful plans, a successful exhibition of horticultural products had been held regularly in the month of November under the auspices of the existing associations representing the four interested branches of agriculture, namely, fruit rowing, vegetable growing, floriculture and beekeeping. When the war came in 1914, plans for a show more successful than ever were already under way, but were quickly abandoned for the more urgent and necessitous duties of war time. For the ensuing five years horticulture in Ontario lacked the stimulus of the big annual exhibition, and, indeed, by many of the less interested, the show was, no doubt, forgotten. With the return to peace conditions the machinery of the Exhibition Association was once more put into running condition, and plans laid for an exhibition in 1919, which would mark the return from war to peace for all horticulturists, and once more serve, annually, to mark the progress of art and practice in commercial fruit and vegetable production and amateur gardening.

Thus it was that in Toronto last week the Ontario Horticultural Exhibition was again visited by lovers of horticulture from all over the province. From Tuesday, November 11, to Friday the 14th, the exhibits of fruit, flowers, vegetables and honey were admired and commented upon by all who came to the Canadian National Exhibition grounds. It was only natural, we believe, that the show should have suffered markedly in number of exhibits as a result of the long break between 1914 and 1919, but, on the whole, the exhibits were as satisfactory as could have been expected. In fact, those who had the responsibility of management were well pleased. Exhibits in all four classes of products were very creditable to say the least, those in the florist and vegetable sections being the most numerous comparatively. Fruit and flowers are always the two chief attractions, and certainly the floral exhibit, particularly the displays by the Toronto Retail Florist Club, were far better than ever before. It is not our place to comment very fully upon this section of the Exhibition, but we

do wish to give full praise to these very pleasing displays. The vegetable exhibits showed up well in numbers, much larger in reality than would be apparent to a casual observer, because they were crowded fairly closely together and did not occupy, therefore, a great deal of space. The specimens exhibited were creditable as to quality, almost without exception. Honey exhibits always make for good displays, and this year were prominently and pleasingly placed in the centre of the building.

#### THE FRUIT EXHIBIT.

As to the fruit, much more can and should be said because it is the fruit, which along with the flowers, attracts the crowds, and it is fruit growing, particularly as it applies to apples, which has suffered most from the All told, there were only 19 fruit exhibitors. war. At this season of the year apples predominate, and just at this time too, Fameuse, McIntosh Red, Baldwin and Spy are all available to lend color and quality to the show. The apples bulk large, both in display and prize money, since there are prizes for as much as a 300-box exhibit. Before the war there used to be several of these large entries, but this year, creditable though their exhibit was, Lynndale Farms, Simcoe, were alone in this class, while they had only one competitor in the 100-box class. The smaller classes of boxed apples were better filled, but even in the single box variety classes there were only two or three entries. Some of these were especially fine, however, particularly those from the Hamilton orchard at Collingwood. W. L. Hamilton knows apple exhibiting perhaps as few other men in the province know it, but he knows it only because he has taken a pride and delight in showing to the public the size, color and quality that the Georgian Bay District can bring forth. Certainly his first-prize box of Spies, that won the sweepstakes prize for the best box of apples in any class, was something to marvel at, and was the delight, not only of the casual sightseer, but of all fruit growers. Such color and quality are rarcly met with, and should have revived the failing hearts of any would-be fruit grower. His first prize barrels of Spy and Baldwin also drew much admiring comment, and certainly make one wish that it were possible to see more of such fruit in a day's travel. Commercially there must be a great future for fruit of anything like this quality, and it was indeed gratifying to note that although the exhibits were relatively few the color and quality all through was an improvement over any previous show.

C. R. Terry, Clarkson. Ben Davis: 1, Hamilton; 2, G. H. Martyn & Son, Port Hope, Ont. Golden Russet: 1, A. D. Heard, Oakville; 2, Hamilton. Greening: 1, Hamilton; 2, Terry. Spy: 1, Hamilton; 2, Heward; 3, M. Kneale, Eastwood. Stark: 1, Martyn & Son. Box, Baldwin: 1, Hamilton; 2, H. C. Breckon, Bronte; 3, Heward. Blenheim: 1, F. J. Watson, Port Credit. Cranberry: 1. Leslie Smith, Wellington. Fameuse: 1, Hamilton; 2, Scott; 3, Norfolk F. G. A., Simcoe. Greening: 1, Hamilton; 2, Sc tt; 3, Watson. King: 1, Hamilton; 2, Terry; 3, Norfolk F.G.A. McIntosh: 1, Hamilton; 2, Terry; 3, Norfolk F.G.A. McIntosh: 1, Hamilton; 2, Scott. Spy: 1, Hamilton; 2, J. J. Gilbertson, Simcoe; 3, Breckon. Tolman: 1, Terry; 2, Hamilton; 3, Watson. Scarlet Pippin: 1, Norfolk F.G.A.; 2, Hamilton; 3, Watson. Scarlet Pippin: 1, Norfolk F. G. A. A. O. V.: 1, Gilbertson; 2, Watson. BoxEs, 5.—Fareuse: 1, Watson; 2, Lynndale Farms; 3, Scott. McIntosh: 1, Hamilton; 2, Scott. Boxes, 10.—Baldwin: 1, Breckon; 2, Hamilton; 3, Lynndale Farms. Greening: 1, Hamilton; 2, — 3, Watson. King: 1, F. C. Jones, Beamsville; 2, Hamilton, Spy: 1, Hamilton; 2, Norfolk F.G.A.; 3, Vores

Jones, 10.—Baldwin: 1, Breckon; 2, Hamilton; 3, Lynndale Farms. Greening: 1, Hamilton; 2, — 3, Watson. King: 1, F. C. Jones, Beamsville; 2, Hamilton. Spy: 1, Hamilton; 2, Norfolk F.G.A.; 3, Jones. Boxes, 20.—Baldwin: 1, Norfolk F.G.A.; 2, Hamilton. Greenings: 1, Hamilton; 2, Scott. Spies: 1, Norfolk F.G.A.; 2, Watson. Boxes, 50.—Baldwin: 1, Norfolk F.G.A. Spy: 1, Norfolk F.G.A. Boxes, 100.—2 varieties: 1, Lynndale Farms; 2, Hamilton. Boxes, 300.—3 varieties: 1, Lynndale Farms. Best PACKED Box of APPLES: 1, Breckon; 2, H. W. Neff, Simcoe; 3, Norfolk F. G. A. SWEEPSTAKES Box: W. L. Hamilton, (Spy).

#### Ontario Fruit Growers Association Meet.

The annual convention of the Ontario Fruit Growers Association took place also last week, on Wednesday, Thursday and Friday. It was held on the Canadian National Exhibition grounds, in the basement of the Government Building, and just across from the Transportation Building where the Horticultural Exhibition was housed. The attendance was good for this time of year, and considering that members have become more or less accustomed during the last five years to meeting in January or February. The Association has become much depleted in numbers due to the usual current causes and now numbers about 600, of which number about 200 are from the Norfolk district.

President Jas. E. Johnson, Simcoe, opened the convention Wednesday afternoon with the presidental address, in which he said in part: "I sincerely hope that the Department of Agriculture will extend their work, and now is the opportune time for them to do so, before it is too late, as apple production is on the decline in Ontario. I also think that the Department of Agriculture can do great work in having experienced fruit-men ut Ontario to be known as instructors in the growing and packing of fruit. The Dominion Government does something in this line, at present, when the Fruit Inspectors are examining fruit for shipment, but I believe it is up to the Province of Ontario to carry on the line of educational fruit-growing for its own people. "I am more in favor of boxing apples than ever before, as apples wrapped in paper will keep far better than when packed in barrels. In the apple season we are almost sure to have weather conditions too warm for the packing of the apples in barrels. When the weather is warm and apples are packed in large packages heat is generated which results in the decaying of the fruit. Next year at the Horticultural Exhibition it would please me to see a demonstration of the packing of apples with an up-to-date sizer. "We have many soldiers taking up fruit growing and we should do all we possible can to aid them and keep them contented on fruit farms. We must get a back-to-the-land movement which we cannot expect under existing conditions. Before this can be accomplished we have got to have a co-operation of all classes whether working in the field, factory, or office and make known to each other our exact position unselfishly. "During the four anxious years of the war we were all wishing for the end of the struggle to come, thinking the conditions would then be much better, but we find ourselves to-day in a world of ugly temper and mis-understanding. We should take an interest in the other fellow's problems. The greatest difficulty we face to-day is that of understanding. We have had too much talk about masses and classes and too little recognition of the truth, that, in the main, all men are very much alike. If we but had a better opinion of the others' ideas it would make for greater contentment, and this would result in greater progress.

Dominion Horticulturist, Ottawa, dealing with the commercial varieties of apples of Canada, and the United States. In Mr. Macoun's absence his assistant, M. B. Davis, read the paper which showed evidence of great care and preparation. We can now only quote from the introductory paragraphs, but in subsequent issues we intend reproducing this paper in full:

"In the vast territory covered by Canada and the United States, where the climates range from Arctic to Tropical, there is a great diversity of vegetation and a great variety 'f edible fruits, and most important of all the fruits is the apple. It is grown in every province of Canada, and in every state of the United States, and, while in Canada the number of trees grown in the coldest parts of the coldest provinces is very limited, so in the United States the number of trees which are grown in the hottest parts of the hottest states is also limited.

'The apple succeeds best in a moderately warm or a moderately cool climate, but some varieties will withstand great cold and others will succeed in great heat. The hardiest varieties of the colder parts are those which withstand extreme cold, the hardiest varieties of the warmest parts are those which withstand extreme heat. In some parts of Canada and the United States the growing season is so short that only those varieties of apples requiring the shortest season in which the apple matures fruit can be successfully raised. Again other varieties require such a long season of warm weather that it is only in the warmest districts where apples are grown that they reach full development. Crimson Beauty requires but a short season, without much warm weather, to ripen, whereas the Winesap and Newtown Pippin will not mature thoroughly except in the warmest parts of Canada as even if the season is a dong one unless there s much high temperature to properly mature these fruits they cannot be very successfully grown. Thus, just as the banana and orange require higher temperatures than the apple if they are to mature, so different varieties of apples require different amounts of heat to bring them to full maturity. Thus also some varieties do well in a short relatively cool season, others do best in a long, relatively cool season. Some varieties which only require a short season where the summers are hot do not reach their fullest development where the summer is cooler.

"It has been found that there are about ninety varieties being recommended by growers in different parts of Canada and the United States, although, if all the varieties advertised by nurserymen were included, there would be considerably more than this, and there are some doubtful ones which we have not included that might perhaps be. We have devided the varieties according to their season into 13 summer, 18 autumn, 21 early winter and 38 winter sorts. Some of the summer apples are autumn sorts in the coldest districts; the autumn varieties, early winter; and the early winter, winter; but they have been classified according to how they keep in Ontario or where a certain variety is specially noted."

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give here the **ap-nesting** for lant to occupy old 6 of them **October**, 2,034 of eggs is over \$30, leaving a veeks to go to ullets are No. . 77, 218 eggs. igh I started y the highest was only 123. with the trap 's Egg-Layir g at Ottawa. COLDHAM.

The following is a list of the awards in the box and barrel classes:

BARKELS, 5, Baldwin, color: 1, W. L. Hamilton, Collingwood, Ont.; 2, Harry Scott, Collingwood; 3,

#### COMMERCIAL VARIETIES OF APPLES.

One of the main features of the first afternoon was a paper prepared by W. T. Macoun,

#### VARIETIES FOR QUEBEC.

Professor T. G. Bunting, Macdonald Collece, Ste Anne de Belleuve, Quebec, gave a very interesting and practical talk on some features of the work in the college orchard. The following extract from his address bears special reference to varieties:

"The orchards at Macdonald College in the Province of Quebec are located twenty-one miles west of the city of Montreal, and comprise thirty acres, consisting of twenty-four and a half acres of young apple trees, twelve and thirteen years of age, an acre and a half of American plums, some cherries and pear trees, and some older apple trees from twenty-five to thirty years. The standard apple trees have been planted 33 feet by 33 feet with fillers the one way consisting of earlybearing apple trees, sour cherry and plum trees, mostly of the Americana group.

"Over 100 varieties of apples, including a number of Mr. Macoun's named seedlings, have been planted. Of this number of varieties 12 are represented by forty or more trees of each—12 by 20 or more trees and the balance by from 1 to 4 trees. The soil is a fertile clay loam overlying a rather stiff clay, and underneath this at varying depths is rock. The land has been fairly well drained with tile, and for the most part dries up in the spring much earlier than adjoining undrained land.

"In handling an orchard of so many varieties many difficulties have been experienced in marketing the fruit. The market requirements are for a large output of uniform fruit of known value. Good fruit of known value will sell readily, but unknown varieties of good quality are more difficult to sell, and will not bring such good prices, while little known varieties of mediocre merit should be discarded from the commercial plantings. The local adaptability of the district to different fruits,

as well as market requirements, should be carefully studied in determining the varieties that should be planted. Too many varieties is a mistake, except probably for local markets; however, it is well to have five or six varieties which will aid in distributing the work of picking, packing and marketing over a longer season, and also aid in ensuring some crop in off-seasons for some varieties. The McIntosh and Fameuse are our two leading varieties, and are similar in many respects, but the marked differences in other respects should be noted and studied by the intending planter. The McIntosh will fall readily as it nears maturity, and in cases of high wind many apples may go to the ground. The Fameuse hangs to the trees well, and may be left until after the McIntosh are harvested.

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"The Fameuse has been very seriously injured as the result of the winter of 1917-18, and thousands of old and young trees have been killed out throughout the province. But we are not discouraged, for the Fameuse has stood the test and has been the leading variety for a hundred years.

"Our best and most profitable varieties are Duchess, Wealthy, Alexander, McIntosh and Fameuse (Snow). We can grow these to perfection and have an unlimited market for them. Of winter apples we have so few of sufficient hardiness and merit that it is questionable whether any of them should be recommended for extensive commercial plantings in Quebec.'

#### COMBINATIONS OF FRUIT AND VEGETABLES.

Fruit and Vegetable Combinations on Sanded Acreages" was the subject of a practical talk by E. J. Atkin, Leamington. The following quotation is herewith given covering the more essential points:

"Few native Canadians have any conception of the possibilities of an acre of soil. The principle of expansion is as old as the law of self-defence. Individuals, as well as nations, have grasped for more for all time. In our greed for grain we ignore the small and seemingly insignificant things of nature, and rush wildly on with-out chart or compass. Unless our system of agriculture is radically changed within the next fifty years, coming generations will have a food situation to solve that is now perplexing India.

"The farmers of to-day, and more particularly the fruit and vegetable growers, have learned several valuable lessons within the past few years. The first and foremost of these perhaps is that intensive farming and rich soil is the only line of horticulture that pays. Secondly that crop rotation must be followed to produce successfully, year after year, a large, healthy and profit-

"As to the first point, it is my intention to mention it only briefly. In the Learnington section, where the scarcity and high cost of manure makes it almost prohibitive, we must resort to other means. True, we do use a small amount of farm-yard manure, particularly where we have to follow extremely intensive forms of culture, as in the green-houses and on our irrigation plots. In the latter we give an annual application of about twenty tons per acre, which is sup-plemented with commercial fertilizers. Where possible a cover crop is also sown in the fall, which is plowed down in the spring. On the remainder of the land a fall cover crop is generally grown; this is plowed down in the spring and supplemented with commercial ferti-

"Crop rotation is the point that requires perhaps the greater consideration, and the proper rotation to a great extent controls the loss from insect pests and plant diseases. While the majority of those before me, I presume, are fruit growers, a large number engage in vegetable growing as well. These two work well together in a good many localities and on the proper soil, especially one that is sandy in nature, they give us a combination that is both profitable and easily handled. While vegetable growing is the principle one in our large number of the growers have found that a combination of the two work well together, especially the smaller fruits, such as strawberries, currants and even peaches, to a very great extent. As a sandy soil is not as well adapted to cherries, plums and pears, these are very little grown and are not nearly as profitable as the afore-mentioned. The peach trees are planted out early in the spring on a soil that has been previously well prepared. Early tomatoes are then planted in the orchard. The cultivation necessary for them gives the trees a good start at no extra expense. In the fall the vines are pulled up and piled around the roots, which gives protection and also serves as a catch to the snow. The second year the orchard is planted with melons. These grow well, and the only preparation necessary is digging some well-rotted manure in the hills. The third year often no crop is planted if the trees have made a normal growth, but if the space is limited and the trees permit it, two rows of tomatoes are often planted the wide way. By the fourth year the trees will commence to bear, and further intercropping would be unwise. Under the irrigation a different rotation is followed. Cabbage are planted in the spring, usually about April I to 10. These will all be harvested by the first week of July. The ground is then given a light top dressing of manure, and about Aug. 1 to 15 is planted to strawberries. These produce a very good crop the next year. After cropping they are cultivated, cleaned out and later on mulched and left for a full crop the coming year. When picking is over they are plowed down and the ground planted to late potatoes. The following year the ground is planted to onions, egg-plant or peppers. In this rotation five profitable crops are grown in the four years, while under ordinary means of culture only three would be produced.'

GOVERNMENT GRADES FOR PEACHES.

The desirability of Government grades for peaches as discussed by F. A. J. Sheppard, St. Catharines, and Hamilton Fleming, Grimsby. Both are vitally interested in this branch of the industry, and their remarks on this contentious question are worth noting. Mr. Fleming condensed his opinions into the following recommendations:

"I am of the opinion that there should not only be an established grade, but that the minimum weight of the peaches should be marked on the package. This is a large and difficult subject, and should be gone into very carefully by all parties interested. I have spent much time on the question and, for the sake of discussion, and in order to obtain the views of my fellow growers, I will only mention one grade, and would suggest that

the established grade of a No. 1 peach be as follows: "'No person shall sell or offer for sale any peaches represented to be of No. 1 quality, unless such peaches are sound, of one variety and of good color for the variety, free from bruises and other defects. The minimum diameter of the peaches shall be two inches. The grade and minimum weight of the package shall be distinctly marked on the package, also the packer's name and address. Ten per cent. of the peaches contained in the package may be below the requirements of this grade.' While I have with me the Government standard eleven-quart basket, which will carry three packed layers of No. 1 peaches as above described, I have made no reference to the pack, as the probabilities are that the new Government standard bushel basket will be more generally used in the future, and at the present time the heaped leno basket appears to be a egal package.

Mr. Sheppard was prepared to agree that Government grades were desirable, but thought they were impracticable at the present time in the St. Catharines district, at least, because of the impossibility of obtainagreed with Mr. Sheppard, and it was stated that labor was so scarce this year in the Niagara District that when the rush of the peach crop was on, peaches were simply picked into baskets and marketed orchard run, because of the impossibility of securing sufficient labor to do the grading. At a later session of the Convention, it was decided that the directors should appoint a small committee, who would consider the advisability of establishing Government grades for peaches and report at the next annual convention.

#### GOVERNMENT DEMONSTRATION ORCHARDS.

W. F. Kydd, who is in charge of the Government demonstration orchards, discussed the methods of handling these orchards, and some of the results that have been secured. The Government now has five leased orchards, consisting of 1,350 trees all told, and located in the Counties of Lambton, Norfolk, Simcoe, Ontario and Prince Edward. These orchards are for demonstration and experimental purposes, and both Mr. Kydd and Mr. Hodgetts stated that they were somewhat disappointed as to the comparatively small number of people who have taken advantage of the good work being carried on at these orchards. Mr. Kydd said that all kinds of sprays have been tested out and several different cultural methods. He was convinced that cultivation is necessary for ninety-nine out of every hundred orchards. If he were operating an five feet of the trees, except in the spring when all of the ground in the orchard might be cultivated for six or eight weeks. At the Whitby orchard great difficulty was experienced in controlling scab, because of a windbreak surrounding the orchard. The speaker said that moisture remains on the trees all forencon, providing the proper conditions for the growth of the disease. He also said that this orchard had suffered more from winter injury than any other orchard he knew of except one. At Collingwood, much has been experienced than at any other place. sect trouble Thedford orchard, in Lambton County, consists of 230 trees, and was leased four years ago for \$150 per year. It had never been pruned or sprayed for twelve years, but for the last four years it has cleared for the Department \$500 per year. At Wellington, in Prince Edward County, where an orchard has been leased for six years, it was necessary to deal with trees, the tops of which were badly cankered. About 450 barrels is the crop this year from 250 trees, but the tops have had to be practically renewed, so that no good crops have here-tofore been secured. The Norfolk County orchard consists of 330 trees, and the first year it was taken over it merely paid expenses. This year there is a splendid crop of 1,000 barrels that will grade ninety-six per cent. No. 1. Mr. Kydd favored the use of spray guns, but said that injury very frequently occurred from this type of equipment because those handling them did not keep far enough away from the foliage. He thought it was necessary to keep at least four feet away. The Ontario apple industry, said the speaker, was going backwards, and, notwithstanding that old orchards will soon be gone, the young trees that have been planted out are not being cared for. Imported apples are filling our markets. He thought that the demonstration orchards had done some good, and said that the five leased orchards have shown a profit of \$2,500 to \$3,000 per

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as his subject "Some Orchard Problems," and referred to those problems which he, as a practical fruit grower, had had to solve. He stated that he operated, alon with Professor F. A. Waugh, a 450-acre farm, of which 120 acres is planted to apples, and, while it might seem odd that a man could successfully hold down two jobs, he sometimes thought that the men who teach farming in the future must also have and operate a farm. Too many teachers now, he said, would starve to death

He first referred to the question of fertilizers, stating that this was one of the most difficult problems to settle, and one which fruit growers have had the least help on from experiment stations. No two experiment stations will agree, and amid conflicting results growers are inclined to neglect fertilizing. Twenty-five years ago the State of Massachusetts began experiments to decide the value of potash as a fertilizer. They did not decide the question, but the experiments did show that no matter what fertilizer was used it was better than nothing. On his own farm the soil was rather light, and it was necessary to fertilize very heavily. He illustrated his methods by a Wealthy orchard set ten years ago. The trees were comparatively small but blossomed very heavily this year. On account of the heavy bloom it was thought necessary to fertilize heavily in order to get size. As a result, 500 pounds of amophos, a combination of phosphoric acid and nitrogen; 300 pounds of nitrate of soda, and 200 pounds of flue dust (containing potash) were applied in three applications. The first application was put on just after the blossom, the second one the first week in July, and the third one toward the last of July. The result was a tremendous crop of large and highly-colored fruit valued at \$500 per acre. The fertilizer cost about \$60 per acre, and the land originally cost \$25 per acre.

#### LABOR AN IMPORTANT PROBLEM.

Everything that is produced on the place is sold on the place. Good local markets that can be reached on first-class highways are nearby, and if it is necessary to deliver fruit, the farm is paid for the delivery. One of the troubles on light land, said Professor Sears, is the curve in a farm of head the the theory is the said the the question of humus. The only block of land that would cause him worry would be one that would not grow weeds. They have tried growing barley and millet, and have put on from one to two tons per acre of ground limestone to correct acidity in the soil. The cost to them is about \$6 per ton delivered at the farm. Last year they spent \$750 for fertilizers, and in 1920 plan to spend \$2,000. They are now seriously considering suitable methods of live-stock farming for the purpose of securing barnyard manure. A number of hogs are always kept, but it was possible that they would decide to fatten a barnful of Western cattle every winter on roughage grown on the remainder of the farm. Professor Sears believed a tractor necessary for any extended acreage, and had narrowed his choice of the different makes to two, both of which are common in Ontario. He had found a small truck for delivery purposes exceedingly valuable, and another year was planning to purchase a lighter truck that would haul fruit from the orchard to the packing house.

Labor, he thought, had caused them more trouble and serious consideration than any other problems of orchard management. The tractor will dispense with one teamster, but still the labor problem is very serious. They have to depend on Polish labor, and have four farm houses so that they can get married men. They have, however, but little trouble in keeping the men because they treat them well. The houses are repaired or decorated whenever they need it, and without the men asking for it. Good wages are paid, amounting to \$2.75 per day, in addition to free house, feed for a cow, and all the land they want for a garden. The men are never docked for time off when sick, but every man is expected to do a

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#### SOME ORCHARD PROBLEMS.

One of the best and most practical addresses of the convention was delievered by Professor F. C. Sears, Professor of Pomology, Massachusetts Agricultural College, Amherst, Mass. Professor Sears was formerly engaged for some years in horticultural work in Nova Scotia, and, having spent ten years of his life in Canada, is well acquainted with Canadian conditions. He took

always made responsible for a certain part of the work in which he is engaged.

#### CONSUMERS WANT RED APPLES.

About five varieties constitute Professor Sears' choice for a commercial plantation. These are all red, and are as follows in order of season: Duchess of Oldenburg, Wealthy, McIntosh, Baldwin and Wagner. Green varieties do not sell to the consumer, and the speaker instanced a comparison between McIntosh and Palmer Greening, both varieties having exceedingly fine quality. The McIntosh, which is red, will sell for as high this year as \$15.75 per barrel, a price that can be obtained easier than \$4.00 can be secured for Palmer Greening. Delicious is also being considered as a high-class dessert apple, following McIntosh.

The trees that come untrue to name from the nursery, said the speaker, prove a serious handicap to the fruit grower. Professor Sears has had 650 supposedly McIntosh trees turn out to be Wolfe River; 200 Gravensteins finally developed into Scott's Winter, until now they have narrowed down to securing trees by topbudding in the nursery, or whip-grafting. At the present time McIntosh and Wealthy are worth \$90 per hundred, and other varieties \$75. Nursery stock is very difficult to get.

There is no special time for pruning; it is more important that a good man prune a tree than that the pruning be done in March. Young trees are pruned every year, but as moderately as possible. Fall plowing is practiced because it helps to get the work done. If the land the land was rich enough, the speaker said he would not cultivate at all, but as it is, cultivation is stopped the first week in July in Massachusetts, and the land put under a cover crop. The bulk of the trees are headed back to thirty inches. Rhode Island Greenings could stand to be three and a half to four feet; McIntosh thirty inches, and Sutton six inches. Permanent trees

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" cusse variet and r

roblems," and referre practical fruit grower, at he operated, along 50-acre farm, of which d, while it might seem y hold down two jobs, nen who teach farming operate a farm. Too ould starve to death

n of fertilizers, stating difficult problems to ers have had the least No two experiment flicting results growers g. Twenty-five years began experiments to fertilizer. They did experiments did show as used it was better the soil was rather ertilize very heavily. Wealthy orchard set comparatively small. year. On account of necessary to fertilize a result, 500 pounds phosphoric acid and soda, and 200 pounds were applied in three on was put on just he first week in July, of July. The result d highly-colored fruit ilizer cost about \$60

#### PROBLEM.

st \$25 per acre.

the place is sold on at can be reached on nd if it is necessary r the delivery. One Professor Sears, is block of land that one that would not rowing barley and to two tons per acre ity in the soil. The livered at the farm. ilizers, and in 1920 w seriously considerarming for the pur-A number of hogs le that they would a cattle every winter inder of the farm. necessary for any d his choice of the ich are common in truck for delivery another year was k that would haul

g house. them more trouble other problems of will dispense with lem is very serious. por, and have four narried men. They keeping the men houses are repaired and without the e paid, amounting e house, feed for a or a garden. The nen sick, but every

#### NOVEMBER 20, 1919

#### on good land he thought should not be less than fifty feet apart. HOW AND WHEN TO SPRAY APPLES.

W. A. Ross, Horticultural Experiment Station. Vineland, reported on some spraying experiments carried on in Norfolk County, comparing the Ontario spray schedule with the Nova Scotia spray calendar; also on three inconclusive experiments with dusting. Mr. Ross favored very much the Thompson Bordeaux formula (3 lbs. bluestone, 10 lbs. hydrated lime, and 40 gallons of water). The bluestone is dissolved over night and is then strained into the spray tank. About twothirds of a tankful of water is then added, and after starting the agitator the hydrated lime is then poured in, after which the remainder of the water is added and the mixture is complete. At Vineland, lime sulphur showed some spray injury, but there was none from the Bordeaux mixture. On Duchess, the lime-sulphur foliage was small and curled, while the Bordeaux foliage was of much better appearance. At Simcoe there was little difference in the condition of foliage with either Spys or Baldwins; if there was any difference it was in favor of Bordeaux. The codling moth was controlled equally well. Color on fruit sprayed with lime-sulphur is much brighter and snappier than with Bordeaux is much brighter and snappier than with Bordeaux mixture. The ideal spray program, which was con-curred in by Mr.Caesar, was as follows, for apples: First spray, before the buds burst, with lime-sulphur 1 to 7 where San Jose scale is present; 1 to 9 for oyster shell and blister mite, adding Black-leaf 40 for aphids. Second spray (in the pink), Bordeaux mixture, Thomp-son formula, (3-10-40), and one pound of powdered arsenate of lead or 2½ pounds of arsenate of lead paste to 40 gallons of the mixture. The third spray, when the bloscom has fallen lime sulphur 1 to 40 and when the blossom has fallen, lime-sulphur 1 to 40 and arsenate of lead. The fourth spray, lime-sulphur.

Mr. Caesar stated that he was trying to recommend as few sprays as possible, and that three were usually sufficient. He stated that the larvæ of the codling moth do not enter the fruit for three weeks after the bloom has fallen, and that by putting poison in the fourth spray it was possible to reduce the seriousness of this pest by from ten to thirty per cent. The eggs are laid for the second brood during the first week in August, but a big factor in controlling this brood is the weather.

W. P. Macdonald, Agricultural Representative for Lambton County, discussed the fruit situation in his County, and stated that the fruit industry in Lambton is a fair-sized one and worthy of development, but still in its infancy. The climate is modified by Lake Huron and the general north-westerly slope of the land. A ridge of sandy and gravelly loam runs through the County, upon which it is possible to grow fruit of excellent quality and type. The peach industry has suffered severely, first as a result of the shortage of labor brought about by the war; second, as a result of the peach-leaf curl in 1916 and 1917, and third as a result of the severe winter of 1917–18. Small fruits are grown at Thedford and Arkona, where some labor can be secured, but there are few specialized fruit growers in the county, all the fruit being grown in conjunction with mixed farming. Early maturity, marketing facilities, suitable soil, with resulting quality and color, were said to be the notable features of Lambton fruit growing. The general farm orchard is dead or dying.

#### SUCCESSFUL STRAWBERRY CULTURE.

P. H. Wismer, Jordan Station, one of the most successful growers of small fruits in Ontario, spoke on "Intensive Strawberry Culture," and rather than leave out many good points we are printing his address in full next week.

A great deal of interesting discussion was created by Mr. Wismer's address, but unfortunately we have not space to give it here.

#### THE FARMER'S ADVOCATE.

years ago he purchased ten acres of land for \$1,300, and has since refused \$10,000 for it. He favors apple growing in small holdings, and considers the apple a very economical crop to produce. Many farmers, said the speaker, have much too large an investment for their incomes, and while he has himself succumbed to the natural desire of every farmer for more land he believes strongly in the possibilities of small holdings for re-turned soldiers. Mr. Keeler aims to produce fancy stuff that will bring the highest price. This he does not believe can be done on a 100-acre farm. He employs three men, and believes the labor problem can be made much easier of solution by treating employees considerately. He sees no good, however, in an eighthour day for farmers, and claims that eight hours before dinner and eight hours after dinner is about the only practicable method still. A good share of his fruit is disposed of to consumers who pick it themselves at a suitable reduction, and Mr. Keeler believes that one of the next problems in fruit growing is to institute some kind of a cafeteria system whereby the consumer may come to the farm if he desires and get what he wants. Asparagus is the first crop harvested, followed by raspberries, peas, carrots, beets, potatoes, currants, and other crops, winding up with apples and celery. He is growing celery of good quality at a cost of less than one cent per head. He prefers strawberries and raspberries to asparagus, and specializes in the Wm. Belt strawberry because of its large size and fancy appearance. The yield of this variety has been raised y careful selection, cultivation and fertilization from 4,000 baskets per acre to 8,000 since 1908. Raspberries were all sold for 35 cents per box this year. In 1918 he secured \$1,200 returns from three-quarters of an acre of strawberries. Since then he has been able to sell strawberry plants for twice as much as before.

#### PROMISING VARIETIES OF SMALL FRUITS.

M. B. Davis, Assistant in Pomology, Central Experimental Farm, Ottawa, discussed some new but not well-known varieties of small fruits that have been satisfactorily tested for some years at Ottawa. The speaker first referred to the Portia strawberry originated at Ottawa. Attention was also directed to three varieties of raspberries, Newman No. 23, Brighton and Count, While three varieties of grapes, Lincoln, Mary and Wilkin's Seedling, as well as the Kerry black currant, were also mentioned. Brief notes on these new varieties will be given later.

H. G. Bell, Director Soil and Crop Improvement Bureau, Canadian Fertilizer Association, discussed the subject of "Fertilizers for the Fruit Grower" somewhat briefly, owing to lack of time, but summing up his remarks Mr. Bell said:

"It seems to me that the most profitable fertilizing practice for your orchard can be determined to quite an extent by a study of the trees themselves. If the leafage is sparse and the twig growth is indifferent, there is clear indication of the lack of nitrogen. If on the other hand, twig growth is extensive and a great deal of leafage and a slow ripening of the crop, there is pretty clear indication of the lack of phosphoric acid. Undersized apples, insipid in taste, and fruit and trees susceptible to disease indicate a marked lack of potash. As a general rule you will find sandy or gravelly soil short of all three of the plant food constituents, and orchards on such soils will naturally require more abundant feeding than were they found on richer loam

soils. "Fertilizers will not take the place of drainage, nor proper will they do the job of spraying or pruning or proper soil tillage, nor will fertilizers take poor varieties and produce good results from them."

The Niagara Grape Growers' Association, which was organized this year, was the subject of a paper read by Jas. Livingston, Grimsby, who recounted the history of grape growing since 1907, and pointed out the inconsistencies of grape prices in the intervening years from the standpoint of the grower. The speaker pointed out the need for co-operation along lines that will ensure a parity of prices in different parts of the grape-growing district. Arthur Craise, St. Catharines,

discussed the relation between the grower and the canning factories, and pointed out that many unfair. restrictions were now placed upon the grower which should be removed. A small committee was appointed to take up this matter with the factories.

#### RESOLUTIONS.

A number of resolutions were passed at the final session on Friday, which are summarized herewith It was carried unanimously that the Provincial and Dominion Governments be asked to take some steps that will retain in Canada the services of the best men, many of whom are finding more lucrative openings outside of the country after having got their training here. It was also decided that the Directors should investigate the feasibility of holding a National Apple Show in Canada in 1920 or as soon as possible. Another resolution asked that the Dominion Government call a fifth Dominion conference of fruit growers, and if a National Apple Show be held, that the conference be held at the time of the show. A resolution was also passed asking that the Women's Division of the Government Employment Bureau be continued, as it was felt that women and girls would be seriously needed for fruit harvesting in 1920. The convention concurred in a resolution prepared by a special committee of the Florist's Association that a National Council of Horticulture is desirable in Canada; and agreed to appoint representatives to such a council. The Board of Directors was empowered to reconsider the method of electing directors, and to report at the next annual convention on the question of electing directors accord-ing to districts furnishing the greatest memberships.

#### DIRECTORS.

The election of Directors resulted as follows: DIS-TRICT 1: Renfrew, Lanark, Carleton, Russell and Pres-cott, W. T. Macoun, C.E.F., Ottawa; DISTRICT 2: Glengarry, Stormont, Dundas, Grenville, Leeds and Frontenac, J. C. Neeler, ; DISTRICT 3: Lennox and Addington, Hastings and Prince Edward, R. W. Ireland, Wellington; DISTRICT 4: Northumberland and Durham, Peterboro and Victoria, H. Sirett, Brighton; DISTRICT 5: Ontario and York, W. J. Bragg, Bowman-ville; DISTRICT 6: Peel and Halton, C. R. Terry, Clarkson; DISTRICT 7: Wentworth, David Allan, Grimsby; DISTRICT 8: Lincoln, A., Craise, St. Catharines; DIS-TRICT 9: Elgin, Norfolk, Haldimand and Welland, Jas. E. Johnson, Simcoe; DISTRICT 10: Kent, Essex and Lambton, Jas. Johnson, Forest; DISTRICT 11: Middlesex, Huron and Bruce, H. K. Revell, Goderich; DISTRICT 12: Brant, Oxford, Perth, Waterloo, Wellington and Dufferin, J. F. Elliott, Oxford Centre; DISTRICT 13: Grey, Simcoe, Muskoka, Parry Sound, Nipissing, Algoma and Manitoulin, W. L. Hamilton, Collingwood; O. A. C., Professor J. W. Crow; Horticultural Experi-ment Station, Vineland, E. F. Palmer.

## FARM BULLETIN.

#### The Farmer-Labor Cabinet.

All guessing in regard to the personnel of the new Ontario Cabinet came to an end at 11 a.m. on Friday of last week when Mr. Drury and his chosen lieutenants were sworn into office at the Government House, Toronto. Subsequent to the ceremony, the new Ministers betook themselves to their offices in the Parliament Buildings, where they received their first experience as Ministers of the Crown. The composition of the new Government was first made known on Thursday, after W. F. Nickle, of Kingston, had declined the Attorney Generalship, on account of personal reasons, and W. E Raney, K. C., Toronto, had accepted. The Cabinet complete and as set forth elsewhere i

ours' work and n part of the work

#### PPLES.

Professor Sears' These are all red, Duchess of Oldenin and Wagner. consumer, and the een McIntosh and ng exceedingly fine ed, will sell for as price that can be ecured for Palmer considered as a cIntosh.

from the nursery. dicap to the fruit 650 supposedly liver; 200 Graven-Winter, until now ng trees by top-At the grafting. are worth \$90 per Nursery stock is

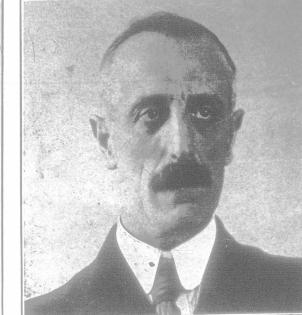
ning; it is more ree than that the trees are pruned ole. Fall plowing e work done. If er said he would vation is stopped of the trees are Island Greenings ur feet; McIntosh Permanent trees

SMALL HOLDINGS FOR RETURNED SOLDIERS.

"Small Holdings for Profit," was very fully dis-cussed by F. C. Keeler, Brockville, who grows thirty varieties of fruits and vegetables on a small acreage and retails all of his produce to the consumer. Fourteen

W. E. Raney, K.C. Attorney-General in the new Ontario Government.

these columns. Manning W. Doherty, who presides over the Depart-ment of Agriculture, was born in 1875 at the family homestead, Clontarf Farm, Peel County. Clontarf Farm has been in the family name for four generations,



Harry Mills Minister of Mines.



Walter Rollo Minister of Labor and Health



2094

#### H. C. Nixon, B.S.A. Provincial Secretary.

having been purchased from the Crown in 1815. After preliminary training at the Collegiate Institute and Upper Canada College, Mr. Doherty entered the O. A.C., in 1892, and graduated in 1895. His Master's Degree in agriculture was obtained at Cornell University, and he received his appointment as Associate Professor of Natural Science at the O. A. C. in 1898. While there he organized and conducted the first course in public speaking; incidentally, Premier Drury was a member of that class. Connections with the College were severed in 1902, and from then until 1912 Mr. Doherty was engaged in business. Since the latter date he had de-voted himself to Clontarf Farm and its Clydesdales, Holsteins and Yorkshires. No other member of the Cabinet has as thorough a grasp of the work he has in hand as has the Minister of Agriculture. He has in hand as has the Minister of Agriculture. He has not had Legislature experience, that is true, but his technical training, as well as practical experience, com-bined with the knowledge gained of Ontario's rural needs through his work as a U. F. O. director, equip him admirably for the portfolio. R. H. Grant, of Carleton, who is to be the new Minister of Education is a university man as well as a

K. H. Grant, of Carleton, who is to be the new Minister of Education, is a university man as well as a farmer. His views, therefore, should be broad in educa-tional matters. W. E. Raney, K. C., the new Attorney General, is a well-known Toronto lawyer. The public has got acquainted with him, largely through his activities in combatting race-track gambling and as solicitor for the Ontario Branch of the Dominion Temperance Alliance. The Provincial Secretary, H. C. Nixon, is the volument member of the Cabinet a graduate of the the youngest member of the Cabinet, a graduate of the O. A. C., and a successful farmer in North Brant. Peter Smith, the Provincial Treasurer, represents South Perth. He is fairly new in the ranks of the U. F. O., but is considered an able man. Before settling down finally on the farm, he was a school teacher. Beniah Bowman, from Manitoulin, who is to ad-Beniah Bowman, from Manitoulin, who is to ad-minister the Department of Lands and Forests, sat in the Legislature during the last session, being first elected at a by-election. He was originally a native of Waterloo County but has been farming at Gore Bay for some time. The portfolio of Mines must be established by an Act of Legislature. In the past it has been lined up with Lands and Forests; when finally separated, Harry Mills, of Fort William, will take charge. Mr. Mills is a locomotive engineer by trade. For seven years he has a been member of the Board of ars he has a been member of the Board of Education at Fort William, three years of which time

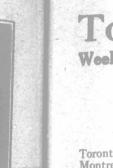


#### Manning W. Doherty, M.A., B.S.A. Minister of Agriculture.

he was Chairman of the Board. F. C. Biggs, Minister of Public Works, has had considerable experience in public service in his own county of Wentworth, where he has been twice elected Warden by acclamation. He he has been twice elected warden by acclamation. The has had training at the O. A. C. and operates a large farm. Walter Rollo, of Hamilton, who like Mr. Mills, represents Labor in the Cabinet is a broom-maker by trade and of Scottish ancestry; the Department of Health

The Personnel of the Cabinet. Premier and President of Council-E. C. Drury. Minister of Agriculture-Manning W. Doherty. Minister of Education-R. H. Grant. Attorney General— W. E. Raney, K.C. Provincial Secretary-H. C. Nixon. Provincial Treasurer-Peter Smith. Minister of Lands and Forests-Beniah Bowman. Minister of Mines-Harry Mills. Minister of Public Works-F. C. Biggs. Minister of Health and Labor— Walter Rollo. Minister Without Portfolio— Lt.-Col. D. Carmichael, M.C., D.S.O.

and Labor will be his to administer. The Minister without Portfolio, Lieut-Col. D. Carmichael, M. C., D. S. O., saw four year's service at the front. In the Legislature he represents centre Grey. It is rumored that Lieut.-Col. Carmichael will be given a place on the Hydro Electric Power Commission. FOUNDED 1866



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Toronto Montrea Montrea Winnipe Calgary Edmont

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The s has bee slowly m prices sh and pro search o well as stock th low initia advanta by shipr during th heaviest week we sand he a week of good apprecia best kill \$1 per h made sul cleared o ended w few heav averaging pounds, load ave pounds a purchase Several o were mad Steers av hundred loads run pounds h at \$12.5 quality i \$11.75 to to \$11.5

\$10.50. hundred

at the

Asa r esult of the recent strike of the bituminous coal miners in the

F. C. Biggs

Minister of Public Works.

while other members of the Cabinet have had university

from the time the Cabinet is sworn in before writs can be issued for by-elections, it is evident that the Legis-

lature cannot convene until well on towards the first of

February. In the meantime, the Cabinet will have time to prepare their program and policy for the future.

Victory Loan Went Over the Top.

responded to the appeal to buy Victory Bonds. The amount mentioned in the prospectus for this year's issue was \$300,000,000, but at time of writing there is

evey reason to believe that this amount will be more than

doubled. Throughout the entire campaign a good deal

of enthusiasm was in evidence, both in rural and urban

centres. While the cities have piled up a big total, the

rural districts have not fallen short. In fact, many of the counties have considerably surpassed their

objective. All classes of people, from the newsboy to the

millionaire manufacturer, have helped make this loan a crowning success. The larger cities have surpassed

their objectives by many millions. At time of writing the race for first place is between Toronto and Montreal.

Sir William Hearst's Message.

When quitting office to make way for the new Govern-ment, Sir Wm. Hearst made the following statement: "In retiring from office I have nothing to add to what

I have already said, save that I recognize heartily and gratefully the staunch support for good measures which the Course was the support for good measures of office

the Government has received during its term of office from the great majority of the people of Ontario.

great Province, particularly during the strenuous war period through which we have just passed, and the

future prosperity and happiness of Ontario will be my

"It has been an honor and a privilege to serve this

It is very gratifying indeed to see the way Canadians

Owing to the fact that forty-five days must elapse

training.

Toront Montre Montre Winnip Calgary

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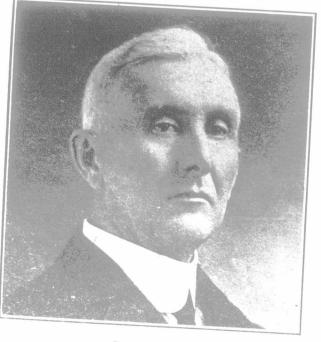


Tor

It is rather significant that the new Cabinet numbers

four ex-students of the Ontario Agricultural College,

in Ontario, either in transit or in storage, has been United States, all bituminous coal seized by the Provincial Fuel Administrator. A federal embargo has also been placed on all coal shipments



R. H. Grant



Beniah Bowman Minister of Lands and Forests.



Peter Smith Provincial Treasurer.

moving from \$8 to \$7.75 shared in sold from ones as h at simila bologna market f fairly act ments we feeders co per hund from \$10 from \$7 comparati an easier ported al the major from \$15 \$12 and gr The cres ently past thousand lower that Quotation lambs sel market, \$14. Cu taken fr \$7 to \$9, The h selects 25 cents 25 cents Thursday \$17.75, f.o.b., but \$17.50.



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t have had university

ve days must elapse in before writs can lent that the Legistowards the first of Cabinet will have policy for the future.

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the way Canadians ictory Bonds. The tus for this year's of writing there is nt will be more than mpaign a good deal in rural and urban up a big total, the In fact, many y surpassed their the newsboy to the d make this loan es have surpassed At time of writing nto and Montreal.

#### Message.

r the new Governing statement: ing to add to what nize heartily and d measures which its term of office f Ontario. lege to serve this he strenuous war passed, and the ntario will be my

f the bituminous

NOVEMBER	20,	1919		

#### THE FARMER'S ADVOCATE. Toronto, Montreal, Buffalo, and Other Leading Markets Receipts and Market Tops. CATTLE Receipts Top Price Good Steers Receipts (1,000-1,200)Week Same

Week

Ending

Nov. 13

\$12.55.

.. 11.00. .. 11.00.

12.15.

10.25.

10.50.

Week

Ending

Nov. 13

\$17.75.

17.00.

17.00.

15.50.

15.75.

15.75.

Same

Week

1918

\$13.25.

11.75.

11.75.

12.50

12.50.

.. 10.00.

Top Price Selects

Same

Week

1918

\$18.75

18.00.

18.00.

17.75.

16.75.

16.50.

Week

Ending

Nov. 6

.\$12.25

11.50

11.5011.00

10.25

9.50

Week

Ending

Nov. 6

\$17.00

16.75

16.75

15.50

15.75

16.00

Week

Ending Nov. 13 788...

1,322

1,519.

658

870.

Same

Week

1918

902.

946

447.

Week

Ending

Nov. 6

12,265.

2,247

2,779

15,376.

5,794

3,385..

Week

Ending

Nov. 6

9.219

1.991

1,485

.2,442

356.

161.

HOGS

Week

1918

8,909

3,819

9,630

4,565

984

Receipts

Same

Week

1918

10,901

2,703

1,931

6,581

2,808

732

	Ending
	Nov 13
nto (U. S. Y)	0.619
treal (Pt. St. Chas)	A 167
treal (East End)	4 415
nipeg	15.723
ary	5 533
onton	4,248

Toro

Mon

Mon

Winn

Calga

Edm

	Week
	Ending
	BI TO
Toronto (U. S. Y.)	8,647
Montreal (Pt. St. Chas.)	2 210
Montreal (East End)	1 402
Winnipeg	3 002
Lalgary	492
Edmonton	278

#### Market Comments. Toronto (Union Stock Yards).

The slump in cheaper grades of cattle has been arrested, and good cattle are CLASS slowly moving to higher levels; last week's STEER prices showed the lowest level of the season and provided a bargain for packers in search of cattle of the lower grades, as STEER well as giving feeders an opportunity to 1,000stock their feeding pens with cattle at low initial cost. That farmers have taken advantage of this opportunity, is shown Steer 700 - 1. by shipments of feeders to country points during the past two weeks, these being the heaviest of the year. Receipts for the HEIFE week were slightly better than ten thousand head, or three thousand less than Cows a week ago, and with packers in search of good cattle these showed a considerable appreciation in values. During the week BULLS best killers were marked up 75 cents to \$1 per hundred, while common stock also made substantial gains. Cattle were well cleared on the closing market, and trading CANNE ended with a good healthy undertone. A few heavy steers were on sale; one load OXEN. averaging thirteen hundred and fifty pounds, sold at \$14 per hundred, and a CALVE load averaging twelve hundred and fifty pounds at \$12.80; these two loads were purchased for shipment to Europe. Several other sales of cattle of that grade were made from \$12 to \$12.50 per hundred. STOCKE 450 - 80Steers averaging ten hundred to twelve FEEDEI hundred pounds sold equally well, four 800-1,1 loads running close to twelve hundred pounds being taken by a local abattoir at \$12.55 per hundred, while the best Hogs quality in this class sold generally from (fed a \$11.75 to \$12.55, good quality from \$10.50 wa to \$11.50, and common from \$9.50 to \$10.50. Steers and heifers under ten hundred pounds had an active enquiry LAMBS best quality stocl moving from \$10.75 to \$11.75, medium from \$8 to \$9, and common from \$6.25 to \$7.75 per hundred. Cows and bulls SHEEP shared in the general advance; good cows sold from \$9 to \$10 with a few choice ones as high as \$11, while bulls moved at similar range; common cows and bologna bulls from \$6 to \$7.50. The market for stockers and feeders was fairly active and liberal outward ship-ments were made. Good stockers and feeders could be purchased from \$8 to \$10 per hundred, with short keep feeders from \$10 to \$11, and common stockers from \$7 to \$7.75. Calf receipts were comparatively light, and prices had an easier tendency; no sales were reported above \$18 per hundred, while the majority of the best veal calves sold from \$15 to \$17, heavy calves from \$7 to \$12 and grass calves from \$5 to \$7. The crest of the lamb run is now apparently past, last week's receipts of fifteen thousand head being four thousand lower than those of the week previous. Quotations on the whole were steady, lambs selling from \$13 to \$13.75 on every market, with a few of choice quality at \$14. Culls and common lambs were taken from \$9 to \$11, and sheep from \$7 to \$9, with cull sheep at from \$4 to \$7. The hog market is gaining strength; selects sold on Monday at \$17.25, or 25 cents up, while a further advance of 25 cents was made on Wednesday. On Thursday a few carloads were sold at \$17.75, fed and watered, and \$16.75 f.o.b., but most of the sales were made at

	ITREAL	MOI		ORONTO	T			
Top Price	. Charles) Price Range Bulk Sales	(Pt. St Avge. No. Price	Price	Price Range Bulk Sales	Avge. Price	No.		SIFICA'
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\$11.00	k11 00_8	8\$11.00	25 12.55 50 11.00	10.75– 12.25 9.00– 10.50	11.45 9.92		good 0 common	rs ⊢1,200
11.95	9.50-10.50	87 10.00 551 8.00	00 11.75 50 9.00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.24 7.03	799 1,567	good common	rs 1,000
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	4.75- 5.50	1,421 5.10	0 6.00	. 5.25- 6.00			& Cutters	ERS &
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Dominion Department of Agriculture, Live Stock Branch, Markets Intelligence Division

Top Price Good Calves

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bituminous coal torage, has been rator. A federal coal shipments

> Of the disposition from the Yards for the week ending November 6, Canadian packers purchased 346 calves, 8,137 butcher cattle, 254 hogs, 35 sheep and 14,786 lambs. Local butchers purchased 450 calves, 650 butcher cattle, 110 hogs and 2,250 lambs. Canadian shipments were made up of 69 calves, 953 stockers, 525 feeders, 90 hogs, 178 sheep, and 194 lambs. Shipments to United States points consisted of 173 calves, 1,000 butcher cattle, 192 stockers and 1,042 feeders.

The total receipts from January 1 to November 6, inclusive, were: 303,033 cattle, 59,734 calves, 326,550 hogs and 216,458 sheep; compared with 240,828 cattle, 49,950 calves, 293,836 hogs and 108,207 sheep received during the corresponding period of 1918.

#### Montreal.

There was a total cattle offering of eight thousand five hundred and eightyfive head on the two markets during the week. There were very few animals of good quality offered, about five thousand head being canners and bulls, and the balance made up of common cows, light heifers and only fair butcher cattle. The top price of \$11.25 was paid for sixteen steers averaging nine hundred and fifty-five pounds. One load of steers averaging ten hundred and fifty pounds sold for \$11, but nearly all the sales were made under \$10.50. In the market closed 25 cents higher; the cattle, 45,495 calves, 40,493 hogs and 42.

butcher trade most of the trading was done in light steers and heifers at prices ranging from \$8.25 to \$9.50, with very light steers and heifers selling around \$7; at the close of the week that class of stock was harder to sell and buyers were predicting a drop of 50 cents on beef cattle. Canners and bulls remained firm at prices from \$4.75 to \$5 for canner cows and \$5.50 to \$6 for canner bulls. Calf receipts, made up of calves and light yearlings, amounted to two thousand and ninety-two. Light yearlings sold at \$5.50, while grass calves were firmer, selling in most cases at \$7. There were very few veal calves and for those offered the top price was \$16. Heavy calves

and pail-fed calves sold from \$9.50 to \$10. There were over eighty-five hundred sheep and lambs on sale, and of these eleven hundred were bought by local firms, while the balance went to New York with the exception of one load of ninetynine lambs which went to Toronto. Good lambs sold generally for \$13.75, and at a top of \$14, while common lambs changed hands from \$10.50 to \$12.50. Many mixed lots were sold for \$13. Sheep sold from \$6.50 to \$8, with the majority of sales at \$7.50.

Hog receipts were about equal to those of the previous week. A firmer tone developed during the week and the firmness was further indicated by more leniency in grading, and by the reducing of the cut on some sows from \$5 to \$4 per hundred.

PT. ST. CHARLES.-Of the disposition from the Yards for the week ending November 6, Canadian packing houses and local butchers purchased 348 calves, 2,459 butcher cattle, 2,034 hogs and 1,886 sheep. Canadian shipments were made up of 8 calves, and 86 lambs. Shipments to United States points consisted of 1,463 lambs.

The total receipts from January 1 to November 6, inclusive, were 50,565 cattle, 67,612 calves, 73,092 hogs and 89,391 sheep; compared with 45,334 cattle, 59,196 calves, 61,267 hogs and 45,715 sheep, received during the corresponding period of 1918.

EAST END .- Of the disposition from the Yards for the week ending November 6, Canadian packing houses and local butchers purchased 918 calves, 2,405 butcher cattle, 1,485 hogs and 1,887 lambs. Shipments to United States' points consisted of 55 butcher cattle and 671 lambs.

The total receipts from January 1 to November 6, inclusive, were 55,433 cattle, 52,340 calves, 52,836 hogs and 59,778 sheep; compared with 46,694

391 sheep, received during the corresponding period of 1918.

#### Winnipeg.

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Receipts of stock were about even with those of the previous week, while through-billing amounted to thirty-four hundred and eighty-eight head. Of the through-billed stock, a large proportion was en route South and East to packing plants and the remainder on export to Belgium. Stockers sold from \$5.50 to \$8, and feeders of good quality from \$9 to \$10.25.

#### Buffalo.

Cattle.-Cattle market, with receipts considerably lighter than for former weeks, ruled generally a quarter to a half higher, all week at Buffalo, on best grades of shipping steers and the more desirable butchering cattle. Medium and less desirable butcher grades sold about steady, while on canner and cutter stuff, prices looked 15 to 25 cents lower. Bulls generally sold steady, a good, strong trade was had on stockers and feeders, and on the better grades of milk cows and springers prices ruled firm. There was a far better undertone to the trade than has been for some weeks past, and good clearances were had each day. Supply of Canadians totaled around 175 cars for the week and included the best shipping steers offered, top for these reaching \$16. Offerings for the week totaled 7,125 head, as against 8,325 for the previous week, and as compared with 10,975 head for the corresponding week a year ago. Quotations:

Shipping Steers, Natives.—Very choice heavy, \$16.50 to \$17; best heavy, over 1,300, \$15.50 to \$16; fair, over 1,300, \$13 to \$14; best, 1,200 to 1,300, \$15 to \$15.50; good, 1,200 to 1,300, \$14 to \$15; good, 1,100 to 1,200, \$13.50 to \$14.50; plain, \$11.50 to \$12 \$11.50 to \$12.

Shipping Steers, Canadians. — Best heavy, \$14.50 to \$16; fair to good, \$13 to \$13.50; medium weight, \$12.50 to \$13; common and plain, \$11 to \$11.50.

Butchering Steers.—Yearlings, fair to prime, \$14 to \$15.50; choice heavy, \$13.50 to \$15.50; best handy, \$13.25 to \$14; fair to good, \$11 to \$12.50; light and common, \$9 to \$10.

Cows and Heifers.-Best heavy heifers, \$11 to \$11.50; good butcher heifers, \$10.50 to \$11; fair butchering heifers, **\$9.25** to **\$9.75**; light, common, **\$6** to **\$7** yery fancy fat cows, **\$10.25** to **\$10.75** best heavy fat cows, \$9.50 to \$10; medium to good, \$7.50 to \$9; cutters, \$6 to \$6.50;

canners, \$4 to \$5. Bulls.—Best heavy, \$10.25 to \$10.50; good butchering, \$9.75 to \$10; sausage, \$7.25 to \$7.75; light bulls, \$6 to \$8.

Stockers and Feeders.-Best feeders. \$9.75 to \$10.25; common to fair, \$8 to \$9; best stockers, \$8 to \$8.50; fair to good, \$7.75 to \$8.25; common, \$6 to \$7. Milkers and Springers.—Good to best,

Hay .- (Track, Toronto), No. 1 per small lots, \$100 to \$150; in carloads, \$90 ton, \$25 to \$26; mixed, per ton, \$18 to to \$100; medium to fair, small lots, \$80 to \$85; common, \$50 to \$55; in carloads, \$21 Straw.—(Track, Toronto), car lots per \$70 to \$75. ton, \$10 to \$11. to 22½c. per lb. Hogs .- Market was erratic last week Monday the general run of sales on all

before, and 17,100 head for the same week a year ago.

Calves.-The first three days of last week showed top veals selling at \$19, week showed top years sening at \$15, with culls going from \$15 down, Thurs-day top lots brought up to \$20, and Friday the bulk made \$21. Cull grades the latter part of the week brought up to \$16. Few weighty fat calves sold above \$12. with some much kinds landing \$12, with some rough kinds landing around \$8, and few grassy kinds reached above \$6.50 and \$7. The past week's receipts totaled 3,300 head, being against 3,854 head for the week preceding, and 2,000 head for the corresponding week a year ago.

#### **Toronto Produce.**

Receipts of live stock at the Union Stock Yards, Toronto, on Morday, November 17, numbered 445 cars, 7,330 cattle, 351 calves, 5,902 hogs, 7,740 sheep and lambs. Strong active market. Heavy steers 50 cents higher, but choice steers and heifers 25 to 50 cents higher; top, \$13.50 per hundred for forty-one steers averaging 1,200 pounds each. cows 25 to 50 cents higher. C cows, bulls and calves steady. Good Common Sheep strong; spring lambs strong; top, \$14.10, with bulk at \$13.50 to \$14. Hogs, \$17.75, fed and watered.

#### Breadstuffs.

Wheat-Ontario (f.o.b. shipping points, according to freights)—No. 1 winter, per car lot, \$2 to \$2.06; No. 2 winter, per car lot, \$1.97 to \$2.03; No. 3 winter, per car lot, \$1.93 to \$1.99; No. 1 spring, per car lot, \$1.95 to \$1.99; No. 1 spring, per car lot, \$2.02 to \$2.08; No. 2 spring, per car lot, \$1.99 to \$2.05. No. 3 spring, per car lot, \$1.95 to \$2.01. Manitoba, No. 1 northern, \$2.30; No. 2 northern, \$2.27; No. 3 northern, \$2.23.

Manitoba Barley. - (In store,

Manitoba Barley. — (In store, Ft. William), No. 3, \$1.47½; No. 4 C. W., (not quoted); rejects, \$1.32. Oats.—Manitoba (in store, Ft. William) No. 2 C. W., 85½c.; No. 3 C. W., 83½c.; No. 1 feed, 81¼c.; No. 2, 79‰c. Oats.—Ontario, (according to freights outside) No. 3, white, 85c. to 87c. American Corn — (Track, Toronto, prompt shipment) No. 2 yellow, \$1.82; No. 3 yellow, \$1.81. Barley.—(According to freights out-

Barley.—(According to freights out-side), malting, \$1.45 to \$1.48. Peas.—(According to freights outside)

No. 2, \$2.50.

Buckwheat .- (According to freights outside), \$1.31 to \$1.33.

Rye.-(According to freights outside),

No. 2, nominal. Flour.—Manitoba, Government stand-ard, \$11, (Toronto); Ontario; (in jute bags, prompt shipment). Government standard, \$9.50 to 9.60, Montreal and Toronto.

Millfeed.-Car lots delivered, Montreal **\$45**; shorts, per ton, **\$52**; good feed flour, bag, \$3.25 to \$3.50.

The following quotations are for live weight, delivered, Toronto: Spring chickens, 20c. to 23c. per lb.; ducklings, 20c. per lb.; old ducks, 15c. per lb.; hens under 4 lbs., 15c. per lb. Hens 4 to 5 lbs., 18c. per lb. Hens over 5 lbs., 23c. per lb.; roosters, 15c. per lb.; geese, 18c. per lb.; turkeys, 33c. per lb.

#### Wholesale Fruits and Vegetables.

Both the orange and lemon markets were very weak the past few days, and prices materially declined.

Apples kept firm on choice quality fruit. Poor grades being difficult to dispose of. Onions and Potatoes.—Onions kept quite firm at the existing high prices, while potatoes again advanced.

#### Wholesale Quotations.

Apples.-Western boxed, \$3.15 to \$4.50 per box; Ontario boxed, \$1.60 to \$3.25 per box; Ontario and Nova Scotia barrels, \$4.50 to \$9; baskets, 50c. to 75c. per 11 quarts.

Grapes .- Imported Emperors, \$7.50 to

\$8 per keg; \$4.25 to \$4.75 per lug. Pears.—Imported, \$5 to \$6 per box; domestic, Keiffers, 25c. to 50c. per 11 qts.; better varieties, 75c. to \$1 per 11 qts. Tomatoes.—Hot-house No. 1's, 30c. per lb.; No. 2's, 25c. per lb.

Beets.-\$1.35 to \$1.50 per bag.

Cabbag.e-\$1 to \$1.25 per bag, \$2.25 to \$2.50 per bbl. Carrots.-\$1.10 to \$1.25 per bag.

Cauliflower.-50c. to 75c. per dozen, Celery .- 50c. to \$1 per dozen; \$2.75

to \$3.50 and \$4.50 to \$5 per case.

Cucumbers.—Hot-house, \$3 per dozen. Lettuce.—Cal. Iceberg, \$6 per case; Canadian Head at 80c. per doz.; Leaf, 30c. per doz.

Onions.—\$6.50 to \$7.50 per sack of 100 lbs.; \$5 to \$5.25 per 75 lbs.; Spanish,

\$7 to \$7.50 per case. Parsley.—A glut on the market. Parsnips.—\$1.40 to \$1.50 per bag. Potatoes.—\$2.35 to \$2.40 per bag.

Turnips.—90c. to \$1 per bag. Seeds.—Alsike: Following are the

prices that wholesalers are paying at country points per bushel: No. 1, fancy, \$25 to \$26.50; No. 1, \$23 to \$23.50; No. 2, choice, \$22 to \$22.50; No. 2, \$21 to \$21.50; No. 3, \$17 to \$17.70; rejected, \$10.40 to \$14.

#### Montreal.

Horses .- The horse market is attracting no attention just now. Heavy draft horses sell at \$250 to \$300 each, weighing 1,500 to 1,600 lbs. each; light draft, weighing 1,400 to 1,500 4bs., \$200 to \$250 each; light horses, \$125 to \$175; culls, \$50 to \$75 and saddle and carriage animals, \$150 to \$250 each.

Dressed Hogs .- The mild weather is somewhat against demand for dressed hogs and the market has been quiet at 25c, per lb, for abattoir dressed hogs and light country dressed sold at 211/2c.

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doz., selects 64c., No. 1 stock was 58c. and No. 2 stock, 55c. per doz.

Butter.-The price of butter continued unchanged during last week, this being the first week for some time of which this could be said. Pasteurized creamery was 63¼ to 63½c. per lb., finest creamery being 62½c. to 63c., fine creamery, 61½c. to 62c., and finest dairy 57c. to 58c. per lb.

Cheese.-Reduction is now very light and prices are firm, being 30c. to 31c. per lb.

Grain .- Oats were quoted car lots, basis track, Montreal, at 99c. per bushel for No. 2 Canadian Western, in transit and for Nov. shipment from Ft. William, while No. 3, were quoted at 97c., extra No. 1 feed being 97½.c, No. 1 feed being 96c., and No. 2 feed, 93½c. In store, No. 2 Canadian Western were 971/2c.; No. 3 were 951/2c.; tough No. 3 were 94c., and No. 2 feed, 92c.

Flour .--- Manitoba spring wheat flour was steady at \$11 per bbl., in jute bags, ex-track, Montreal freights or to city bakers, with 10c. off for spot cash. Ontario winter wheat flour was \$10.50 to \$10.60 per bbl., cotton bags. White corn flour was \$9.80 to \$9.90 per bbl., and rye flour \$8.25 to \$8.50, in jute.

Millfeed .- The market for millfeeds. was easier, owing to increased offerings. Bran was quoted at \$43 to \$43.50 per ton, and shorts at \$50 to \$51, ex-track, though some were asking \$1 more. Smaller lot brought \$1 to \$2 per ton more. There is some demand for export to the United States.

Baled Hay .- Sales of car lots of good No. 2 timothy hay were reported at \$23 to \$24 per ton, N . 3 being \$21 to \$22 and clover and clover mixed, \$20 to \$20.50.

Hides .- The market was steady, being 33c. per lb. for steer and cow hides, and 25c. for bull hides, veal skins being 75c. per lb., and kips 50c. Lambskins were unchanged at \$2.60 each and clipped lambs at \$1.25 each, while horse hides were \$12.50 each.

#### Chicago.

Hogs.—Heavy, \$14.10 to \$14.50; medium, \$14.10 to \$14.55; light, \$14.10 to \$14.55; light lights, \$14.25 to \$14.50; heavy packing sows, smooth, \$13.60 to \$14; packing sows, rough, \$13.25 to \$13.50; pigs, \$14.24 to \$14.75.

Cattle .-- Compared with a week ago: Beef steers, mostly 50c. to 75c. higher. She-stock, 25c. to 50c. higher; bologna bulls, 50c. higher; butcher bulls steady; canners and cutters mostly 25c. higher; veal calves mostly 50c. higher; best grade stockers and feeders 50c. to 75c. up; common grade stockers steady to 25c. higher; Western 25c. to 50c. higher.

Sheep-Compared with a week ago: Fat lambs, big, 25c. h'gher; sheep, strong, to 25c. higher; feeders steady.

Poultry.-The market for poultry will probably become more active from this onward, as the weather becomes colder. Dressed turkeys were quoted at 40c. to 44c. per lb., chickens 20 to 28c.; ducks, 30c. to 34c. and geese 22c. to 24c. per lb., as to quality.

Potatoes .- The market for potatoes continued a little uncertain. Supplies of Quebec stock were fairly large and the quality is good, but these remarks do not apply to Green Mountains to the same extent as in the past few years. Very little of the latter potatoes are available. Car lots of Quebec white stock were quoted at \$1.80 per bag of 90 lbs., while for smaller lots, in store, the price was \$2 to \$2.25 per bag.

Honey .- White clover comb honey, in pound sections, was quoted at 23c. to 25c. per lb., while white clover strained was 18c, to 20c. in 30-lb, pails and buckheat was 18c. to 20c. per lb.; maple syrup was scarce at 30c. to 35c. per gallon tin.

Eggs.—The price of fresh-gathered eggs continued to mount and there is no telling where it may go. The pro-duction is light and the bulk of the receipts is of rather inferior quality. Fresh gathered stock was 75c. to 80c. per Victory Bonds.

Following were the values of Victory Bonds on the Toronto market Sautrday, November 15: Victory Bonds maturing 1922, 100¼; Victory Bonds maturing 1923, 100¼; Victory Bonds maturing 1927, 102¼ to 102¼; Victory Bonds maturing 1933, 103½; Victory Bonds maturing 1937, 1041/2 to 1043/4.

#### Sale Dates.

Nov. 26, 1919 .- Elgin County Holstein Breeders' Club Sale, St. Thomas. Nov. 27, 1919 .- F. A. Ficht & Son, Woodstock, Ont.-Holsteins. Dec. 2, 1919 .- David Caughell, R. 8 St. Thomas .- Holsteins, farm stock, etc.

Dec. 2, 1919.-Wm. Steen, R. R. 3, Northwood, Ont .- Scotch Topped Shorthorns.

Dec. 3, 1919.-Niagara Peninsula Holstein-Friesian Association, Dunnville, Ont. Dec. 10, 1919.—Hon. Peter Smith, Sebringville, Ont.—Holsteins. Dec. 12, 1919—Ontario Hereford Breed-

er's Association, Guelph, Ont.

Dec. 17, 1919.—Oxford County Hol-stein Breeders' Club semi-annual sale at Woodstock, Ont. Dec. 18, 1919. — Southern Counties

Ayrshire Breeder's Club Sale at Wood-

stock, Ont. Dec. 18, 1919.—Brant District Hol-stein Breeders Sale, Brantford, Ont.

grades were made on a basis of \$15.50. with a few good hogs bringing \$15.60; Tuesday lights and pigs brought up to \$15.75, with better weight grades going at \$15.40 and \$15.50; Wednesday's market was fifteen cents to a quarter lower; Thursday lights and pigs brought up to \$15.50, while packers' grades landed mostly at \$14.75, and Friday the best grades moved at \$15.25, with lights and pigs going at \$15.50. Good roughs sold at \$12.50 and \$13, and stags ranged from \$11 down. Receipts for the past week were 30,700 head, as compared with 26,701 head for the week previous, and 44,700 head for the same week a year

ago. Sheep and Lambs.—Market was quite active all of last week, and a good clearance was had from day to day. Monday top lambs sold largely at \$14.25, with culls going from \$11.50 down, Tuesday's trade was steady, Wednesday's market was a quarter higher, and Thursday and Friday best lambs moved at \$14.75, with culls selling from \$12 down. Canadian lambs, of which there were only a few decks, sold a quarter to fifty cents under the best natives. Sheep remained steady all week. Wethers were quoted up to \$9.50, best ewes ranged from \$7.50 to \$8, and cull sheep \$3 to \$5.50. Receipts for the past week were 28,800 head, being against 25,121 head for the yeek

#### Hides and Wool.

Prices delivered in Toronto: City Hides .- City butcher hides, green, flats, 35c.; calf skins, green flats, 65c.; veal kip, 45c.; lamb skins and shearlings, \$2.75 to \$3.

\$2.75 to \$3. Country Markets.—Beef hides, flat, cured, 35c.; green, 30c.; deacon and bob calf, \$3.60 to \$5; horse hides, country take-off, No. 1, \$10 to \$12; No. 1 lamb skins and shearlings, 75c. to \$2; horse hair, farmers' stock, 35c. to 40c.

Wool .- Unwashed fleece wool as to quality, fine, 40c. to 60c. Wool, washed, fine, 65c. to 75c.

#### Country Produce.

Butter firmed slightly on the wholesales during the past week, advancing 1c. per lb., selling as follows, wholesale: Choice creamery pound prints selling at 64c. per lb.; cut solids at 62c. to 63c. per lb.; and best dairy at 60c. per lb.

Eggs kept stationary in price, with very light offerings of new-laids, selling as follows, wholesale: New-laids, 80c. per doz.; selects at 63c. per dozen; and No. 1's at 60c. per dozen.

Pure lard was easier in price, wholesale, selling at 28c. per lb. in tierces; 283/4c. per lb. in 20-lb. pails, and 30c. per lb. prints.

Honey .- Choice comb, \$5 to \$6 per dozen; strained, 25c. to 26c. per lb.

Poultry.-Receipts were heavy and prices practically stationary on all lines.

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c., No. 1 stock was 58c. c, 55c. per doz.

price of butter continued ring last week, this being or some time of which this Pasteurized creamery was per lb., finest creamery 63c., fine creamery, 611/2 st dairy 57c. to 58c. per lb. luction is now very light firm, being 30c. to 31c.

were quoted car lots, ntreal, at 99c. per bushe dian Western, in transit ipment from Ft. William ere quoted at 97c., extra eing 971/2.c, No. 1 feed No. 2 feed, 931/2c. In Canadian Western were were 95½c.; tough No. No. 2 feed, 92c.

toba spring wheat flour 11 per bbl., in jute bags, real freights or to city Oc. off for spot cash, wheat flour was \$10.50 to l., cotton bags. White \$9.80 to \$9.90 per bbl., .25 to \$8.50, in jute.

e market for millfeeds. ig to increased offerings. at \$43 to \$43.50 per ton ) to \$51, ex-track, though ting \$1 more. Smaller o \$2 per ton more. There for export to the United

Sales of car lots of good hay were reported at n, N . 3 being \$21 to \$22 clover mixed, \$20 to

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\$14.10 to \$14.50 to \$14.55; light, \$14.10 lights, \$14.25 to \$14.50; sows, smooth, \$13.60 sows, rough, \$13.25 to 24 to \$14.75.

ared with a week ago: tly 50c. to 75c. higher. o 50c. higher; bologna ; butcher bulls steady; ers mostly 25c. higher; 50c. higher; best grade ders 50c. to 75c. up; tockers steady to 25c. 5c. to 50c. higher.

red with a week ago: 25c. h'gher; sheep, her; feeders steady.

NOVEMBER 20, 1919

## IE MAGAZI FEILITERATURE EDUCATION

THE FARMER'S ADVOCATE.

#### Make Firm the Peace.

#### BY ALFRED NOYES.

Now, in this morning of a nobler age, Though night-born eyes, long-taught to fear the sun,

Would still delay the world's great heritage,

Make firm, O God, the peace our dead have won.

For Folly shakes the tinsel on its head, And points us back to darkness and to hell

Cackling 'Beware of visions,' while our dead

Still cry, 'It was for visions that we fell.'

They never knew the secret game of power. All that this earth can give they thrust

aside. They crowded all their youth into an

hour, And, for one fleeting dream of right,

they died.

Oh, if we fail them, in that awful trust,

How should we bear those voices from the dust?

-The Daily Mail, London.

#### **Training Young Canada** For Parliament.

LL over Ontario and the West, during the past few weeks, farmers have been elected to the Legislature. If they make good, that is, 'play fair" for the whole country and for all classes in it,-as we confidently expect-they have probably entered the halls of Government to stay.

Now, sitting in Parliament requires more than a clear head and good business ability. If a member is to be anything more than a mere figurehead, he must be able to speak, if occasion comes. He must be able to express himself fluently and to "think on his feet." For lack of these qualifications many a man of fine ideas has been obliged to sit silentand the country has suffered. Or he may have found himself out-talked and some man with good run of the tongue, but who is, comparatively, a mere "wind-bag" where ideas are concerned. Of course practice is one of the secrets of good speaking. When a man has enough of it to get rid of stage-fright and become unselfconscious, he is in a position to say what he really thinks in the best way of which he is capable. For this reason, during the coming winter, the country districts, as never before, should have speaking, speaking every-where. Debates and literary societies should flourish, "Farmers' Clubs" should grow apace, "dinners" should become fablication of the second should become fashionable and toasts encouraged-now that they must be drunk in cold water there is no danger of befuddled brains therefrom. And everywhere it should be insisted that the men, at least, shall speak, not read, their addresses. . By such ways is real talent discovered. There is no saying what genius for oratory and administration a single winter of such practice may not develop, or reveal. Nor will such occasions stop with training men to express themselves: they train, also, the power to think. When a man has to get up a speech he has to inquire all around his subject; there must be no weak spot in his argument -- if he can prevent it. After a little practice of this kind he will be surprised to find his ideas taking more definite form and his faculty for seeing into things growing. . Again, when he takes part in a debate he finds it necessary

to meet argument with argument—a capital mental exercise. The post of "critic," at a debate, is an equally good exercise: one that develops judgment; while the opportunity to propose or reply to a toast invites the grace that should come at such times. Indeed dinners and other social functions are a distinct help to everyone who wishes to acquire conversational ability and ease in "mixing" with people. The touch of conviviality breaks stiffness and loosens the tongue; opinions are inter-changed, and the ripple of repartee set going.—It is not a difficult matter to hold banquets in the rural districts, and this form of coming together socially should be encouraged. There is no necessity to have a luxurious spread, emphasizing too much the eating part of the entertainment; all that is required is to have the usual "good supper" of the country, attractively served, with especial attention to the decoration, and the speeches at the end the real feature of the occasion.

So much for training of the grown-ups in public speaking. But is it not advisable to begin much sooner, even in the lower classes of the public schools? One would not suggest turning the hot school lunch, so persistently and advisedly advocated these days, into a banquet with speeches-the children need the greater part of the noon-hour for play; but might not a part of every Friday afternoon be given to asking a child, here and there, "What do *you* think about so-and-so?"— the questions suited to the age and advancement of the child, and the answers to be given by him on his feet. Is it not safe to say that children so trained will find little embarrassment, later in life, when called upon to propose a toast at a wedding, or to voice an opinion in a political meeting? . . .

Of course, it is taken for granted that the teacher shall insist absolutely that the language with which the young speaker

expresses his thought shall pass muster. As the child grows, so the man will be. Some day the man, because of his ideas, may get into the Legislature, and the consciousness of being able to speak properly will be a great comfort as well as a great advantage to him.

At this point it may be well to re-mark that that in all this training, whether of the child in school or the young man in the rural club, it is well to make the subjects rather easy for the first time or two. For instance if you ask a young speaker, the first time he stands up to deliver himself in public, to tell what he thinks his community needs for its improvement, he is much more likely to make a fair attempt than if you require him to give a dissertation on the League of Nations or a pronouncement on the political situation in Canada. It is wonderful, however, how quickly young people progress when the necessity to speak comes frequently enough; often in the course of a few weeks they surprise themselves as well as their friends.

Perhaps it may seem that this article is a "men's" article, written almost solely for men; but not so. If you will pause to think about it you will know that very often Literary Societies, Debating Clubs, etc., are started by women and girls. Men don't always "bother" about such things. They are interested in the Farmers' Clubs, it is true, but there they talk chiefly about live-stock and farming -excellent subjects. The "United Farmers" adds politics,-another excellent idea, and one hitherto much needed in Canada. There remains, however, a whole range of subjects untouched by these Associations and likely to be left untouched if the women and girls make no move to the contrary. These are the cultural subjects, and those which deal especially with community life-as necessary, surely, for their effect upon thought and senti-

ment, as others of more practical nature. Besides, the *social* side of life must by no means be neglected. It is necessary for men and women, young men and young girls, to meet frequently at eath rings in which the crowd can "mix up" informally. which the crowd can "mix up" informally. Such meetings are necessary to the rounded out life of every community and every individual. Folk must not become "queer" because of being too much alone, nor communities backward for lack of social opportunities. It is not sufficient that one or two sides of human nature be developed: all sides must be if the individual or the community is to become the all-round personality that most closely approaches the ideal. Communities, you see have personalities as distinct as those of individuals. They may be, on the whole, progressive or backward, cultured or uncouth, intellectual or ignorant; social or unsocial, idealistic or grovelling,-and are often spoken of as such.

2097

But, to return to our moulons.-In all this work of "starting things" women and girls have a part, and a great part, to carry out. In these days they take all subjects for their province, and rightly so-it is right that they should be in-terested in politics and farming,-yet it would be a sorry day for the world if women were to turn away from the social graces and social opportunities which do so much towards smoothing and gladdening life.

November is now well past.' The winter is passing. If you have no facilities for public speaking in your neighborhood, get something going as soon as possible—and, by all means, begin with a banquet or other social gathering. Who knows but that, in your little neighborhood may be to-day a future Premier of you Province, or even of this Dominion? Give him a chance to begin his training without further delay.



#### ry Bonds.

the values of Victory ronto market Sautrday, ictory Bonds maturing ctory Bonds maturing ctory Bonds maturing 102<sup>1</sup>/<sub>2</sub>; Victory Bonds 103<sup>1</sup>/<sub>2</sub>; Victory Bonds  $4\frac{1}{2}$  to  $104\frac{3}{4}$ .

e Dates. -Elgin County Holstein le, St. Thomas. .—F. A. Ficht & Son, -Holsteins. -David Caughell, R. 8 steins, farm stock, etc. Wm. Steen, R. R. 3, -Scotch Topped Short-

Niagara Peninsula Holciation, Dunnville, Ont. -Hon. Peter Smith, -Holsteins. Intario Hereford Breeduelph, Ont. -Oxford County Holub semi-annual sale at

- Southern Counties Club Sale at Wood-

—Brant District H**ol-**e, Brantford, Ont.

Mr. Asquith at the League of Nations Union Meeting.

On the 13th of October the inaugural meeting of the national campaign of the League of Nations Union was held at the Mansion House. The chief aim of the Union is to secure the whole-hearted acceptance by Great Britain of the principles of the League of Nations, and to form a strong backing for British delegates to the League. The photo shows: The Lord Mayor of London and Mr. Asquith standing, and Lord Robert Cecil sitting on right.

## The Fashions.

#### How to Order Patterns.

Order by number, giving age or measurement as required, and allowing at least ten days to receive pattern. Also state in which issue pattern appeared. Address Fashion Department, The Farmer's Advocate and Home Magazine' London, Ont. Be sure to sign your name when ordering patterns. Many forget to do this.

When ordering, please use this form:---Send the following pattern to:

#### Name... Post Office..... County..... Province .... Number of Pattern..... Age (child or misses' pattern)..... Measurement-Waist.....Bust..... Date of issue in which pattern appeared

3038-3040. A Stylish Costume.

Waist 3038 cut in 6 Sizes: 34, 36, 38, 40, 42 and 44 inches bust measure: Skirt 3040 cut in 6 Sizes: 22, 24,26, 28, 30 and 32 inches waist measure. The entire dress will require 8 yards of 42-inch material for a medium size. The skirt measures about 1% yard at the foot. TWO separate patterns 10 cents FOR EACH pattern.

#### 2679. Girls' Dress.

3040

3038

Cut in 4 sizes: 2, 4, 6 and 8 years. Size 4 will require 23% yards of 36-inch material. Price 10 cents.

3033

2970

3036

3049. Ladies Cover-All Apron. Cut in 4 Sizes: Small, 32-34; Medium, 36-38; Large, 40-42; and Extra Large, 44-46 inches bust measure. Size Medium requires 45% yards of 36-inch material. Price 10 cents.

#### 3043. Girl's School Dress.

Cut in 4 sizes: 8, 10, 12 and 14 years. Size 10 requires 3% yards of 44-inch material. Price, 10 cents.

3033. "Tunic" Dress.

Cut in 3 sizes: 16, 18 and 20 years. Size 18 requires 5% yards of 44-inch material. Width of skirt at lower edge is 134 yards. Price, 10 cents.

#### 3061. Doll's Set.

Cut in 5 Sizes for Dolls: 16, 18, 20, 22 and 24 inches in height. Size 18 will require  $\frac{5}{8}$  yard of  $\frac{36}{40}$ -inch material for the dress,  $\frac{5}{8}$  yard of  $\frac{40}{40}$ -inch material for the cape, and  $\frac{1}{2}$  yard of  $\frac{20}{20}$ -inch material for the bonnet. Price, 10 cents.

3035. Girl's School Dress. Cut in 3 sizes: 12, 14 and 16 years. Size 14 will require 51% yards of 27-inch material. Price, 10 cents.

#### 3032. Ladies' House Dress. Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 53% yards of 36-inch material. Width of dress at lower edge is about 2 yards. Price, 10 cents.

2970. A Set of Pleasing Toys for the Nursery.

Cut in 1 size. Either style requires 3/4 yard of 27-inch material. Price, 10 cents.

3036. A Popular Style. Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 55% yards of 44-inch material. The dress measures about 2 yards at lower edge with plaits extended. Price, 10 cents.

3042. Girl's Dress. Cut in 4 sizes: 8, 10 12 and 14 years. Size 10 requires 41% yards of 27-inch material. Prices, 10 cents.

#### 3037. A Practical Model. Cut in 7 sizes: 34,36, 38,40, 42, 44 and 46 inches bust measure. Size 38 requires 51% yards of 36-inch material. Width of dress at lower edge is about 21/4 yards. Price, 10 cents.

3053. Child's Dress. Cut in 5 sizes: 1, 2, 3, 4 and 5 years. Size 4 requires 2<sup>1</sup>/<sub>4</sub> yards' of 36-inch material. Price, 10 cents.

2733. Misses' Dress. Cut in 3 sizes: 16, 18 and 20 years. Size 16 will require 37/8 yards of 44-inch material. The dress measures about 2 yards at the foot. Price 10 cents.

3034. A Popular Style. Cut in 4 sizes: 2, 3, 4 and 6 years. Size 4 requires  $2\frac{5}{8}$  yards of 44-inch material. Price, 10 cents.

2766. Ladies' Apron. Cut in 4 sizes: Small, 32-34; Medium, 36-38; Large, 40-42; and Extra Large, 44-46 inches bust measure. Size 38 requires 378 yards of 36-inch material. The Sleeve protectors require 3/8 yard. Price, 10 cents.

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3044. Misses' Dress. 3044. Misses Dress. Cut in 3 sizes: 16. 18 and 20 years. Size 16 will require 3<sup>1</sup>/<sub>2</sub> yards of 44-inch material. The skirt measures 13/<sub>6</sub> yard at the foot. Price, 10 cents.

3059. Girls' Dress. Cut in 4 sizes: 4, 6, 8 and 10 years. Size 10 requires 3<sup>1</sup>/<sub>2</sub> yards of 44-inch-material. Price 10 cents.

2709. Ladies' Dress. Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38

requires 61/2 yards of 36-inch material. The skirt measures about 2¼ yards at the foot. Price, 10 cents. 2657. Child's Short clethes Set.

Cut in 5 sizes: 1, 2, 3, 4 and 5 years. Size 4 requires 31/4 yards of 27-inch material for the dress, 1<sup>3</sup>/<sub>4</sub> yards for the petticoat and 2<sup>7</sup>/<sub>8</sub> yards for the combination. Price, 10 cents,

3046-3048. Business Costume. Waist 3046 cut in 6 sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. Size 38 will require 25% yards of 36-inch material. Skirt 3048 cut in 7 Sizes: 22, 24, 26, 28, 30, 32 and 34 inches waist measure. Size 24 requires for a one-piece skirt, 25/8yards of 48-inch material if cut

skirt, 2%gyards of 48-inch material if cut crosswise, and 2½ yards of 54-inch ma-terial if cut lengthwise. With front and back seams—2¼ yards of 54-inch material will be required if cut with front edges straight, and 2¾ yards if front and back edges are cut bias. The Skirt measures about 21/2 yards at the foot. TWO separate patterns 10 cents FOR EACH pattern.

3051. Girls' Coat.

Cut in 5 sizes: 6, 8, 10, 12 and 14 years. Size 12 will require 41/4 yards of 44-inch material. Price 10 cents.

3045. Ladies' Envelope Chemise, Cut in 4 sizes: Small, 32-34; Medium, 36-38; Large, 40-42; and Extra Large, 44-46 inches bust measure. Size Medium requires 25% yards of 36-inch material. Price, 10 cents.

3062. Boudoir Set. Cut in 4 Sizes: Small, 32-34; Medium, 36-38; Large, 40-42; and Extra Large,

44-46 inches bust measure. Size Medium requires 5% yard for the cap, and 3% yards for the sack, of 32-inch material. Price, 10 cents.

## The Windrow

An attempt is to be made to grow cotton in the Belgian Congo district. \* \* \* \*

"The old woman who lived in a shoe must have been a pretty well-to-do old woman."-Cincinnati Times-Star. \* \* \* \*

About 500 co-operative societies are working full force in the Czecho-Slovak Republic to reduce the high cost of living. The branch societies are con-

3053 3044 2733

#### 2038



centrated in a Central Union, and co operation in the disposition of food, clothing and shelter is dealt with. \* \* \* \*

A Health Campaign conducted by American medical missionaries, has been inaugurated recently in China. China now has 400,000,000 population, on an average, although 16,000,000 die every year; the campaign, which is likely to be carried on, will add another 100,000,000 in ten years. Already baby clinics are being held and Health Exhibits somewhat similar to those with which we are acquainted, but more spectacular, are being sent round.

\* \* \* \* Representatives of the organized working women of twelve countries opened the first international working women's congress in history in Washington, D. C. The main purpose of the meeting was to formulate the program of legislation which the women of organized labor want recommended by the international labor conference soon to be held under the provisions of the Peace Treaty.

Business men of Great Britain, France, Belgium, Italy and the United States, have formed a World Trade League whose purpose is to form a commercial brotherhood which will consider mutual interests. Each country in the League of Nations will be entitled to send two representatives. It is believed that this Trade League may help, by removing the causes, to eliminate war.

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Dress. s: 16. 18 and 20 years. quire  $3\frac{1}{2}$  yards of 44-The skirt measures 13% Price, 10 cents.

Dress. 3: 4, 6, 8 and 10 years.  $3\frac{1}{2}$  yards of 44-inch 10 cents.

Dress.

: 34, 36, 38, 40, 42, 44 bust measure. Size 38 ds of 36-inch material. res about 21/4 yards at 10 cents.

Short clethes Set. 1, 2, 3, 4 and 5 years.  $3\frac{1}{4}$  yards of 27-inch dress,  $1\frac{3}{4}$  yards for and  $2\frac{7}{8}$  yards for the ice, 10 cents,

siness Costume. it in 6 sizes: 34, 36, 4 inches bust measure. re 25% yards of 36-inch 048 cut in 7 Sizes: 22 2 and 34 inches waist requires for a one-piece 48-inch material if cut s yards of 54-inch mawise. With front and ards of 54-inch material f cut with front edges yards if front and back . The Skirt measures at the foot. TWO 10 cents FOR EACH

oat. 6, 8, 10, 12 and 14 ll require  $4\frac{1}{4}$  yards of Price 10 cents.

Envelope Chemise. Small, 32-34; Medium, 42; and Extra Large, neasure. Size Medium s of 36-inch material.

Set. Small, 32-34; Medium, Dutra Large, 2; and Extra Large, leasure. Size Medium the cap, and 3% yards inch material. Price.

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erative societies are n the Czecho-Slovak e the high cost of societies are contral Union, and codisposition of food, is dealt with.

#### **NOVEMBER 20, 1919**

## **Hope's Quiet** Hour.

#### God is Listening.

Then they that feared the Lord spake often one to another; and the Lord hearkened, and heard it, and a book of remembrance was written before Him for them that feared the Lord, and that thought upon His Name .- Mal. 3:10. A beautiful soul, reaching up through the silence to whisper to the heavenly Father, said: "O Holy silence, O Thou quiet God!" and then went on:

#### "We reach

Up to Thine ear our lips; we would have sung

Loud as the angel-host,-ah! do we less? I, and my brothers in the wilderness?"

God may seem to pay no attention to the wrongs endured by His children on earth. He hides Himself behind a veil of mysterious silence and allows tyrants to trample the helpless beneath their feet. But His silence does not mean indifference. Long ago the comforting message was sent to a nation crushed by unjust oppression: "I have surely seen heard their cry by reason of their task-masters; for I know their sorrows; and I am come down to deliver them." and have

We are easily deceived by appearances. Those who stood beside the Cross would have believed that Jesus was the Son of God, if the Father had interfered to save Him from agony and death. Both friends and foes misunderstood the silence of God. They could not understand why He was silent if He loved the dying Man who claimed to be His beloved Son. Yet those hands nailed to the awful Cross were free to reach up to the close embrace of the Father, and that dying cry of unfaltering trust was spoken into the ear of the listening God.

God's plans for His suffering children are far greater than they can understand as they pray for swift relief from pain. He is sometimes silent, but it is the silence of wisest love. He sees the sorrow and hears the cry of the troubled soul,—and He cares! We can grow strong in spirit if we are confident that God knows and cares

After all, we care more for making a real success of this great opportunity called "Life" than we do for present ease. Men will rise early and late, take rest and eat the bread of carefulness, for the sake of future gain; and they don't grudge the price if they "win out," and "make good." Yet, only too often, the reward fails to satisfy; and men discover, when the opportunity has passed by, that it has been frittered away to little purpose. Let us try to trust God's silence, knowing that He will help us to ma of life's portunity. We share His nature, and, of course, we can only be really satisfied with the achievements which are dear to Him. How disappointed we shall be at last if we have only won temporal riches, and must go forth in poverty and weakness to the real life ahead. God makes no mistakes and He knows what is really of priceless value to His own children.

## THE FARMER'S ADVOCATE

may be amongst those who listen to us to-night. Therefore let us do our best." They did their best, and money poured in for the poor man, who gratefully asked the names of his benefactors, and was told that they were called "Faith Hope and Charity.

The other day I was at a meeting in connection with the Forward Movement of the Canadian Church. Those who were given literature to distribute in the homes of their neighbors, were advised to kneel down before they started making visits and ask God to make use of them and teach them what to say.

We are apt to think that we only need to do this when we are called to do "church work," and so we miss the daily gladness of God's everyday companion-ship in everyday work. A little boyson of one of our readers-said he wanted to go to heaven to "help God do his chores." Isn't it a wonderful thing to remember that God came down to earth because He wanted to help His children with their "chores." I like that homely word which is so constantly used in the homes of our Canadian farmers. God doesn't want to be treated as a visitor and "entertained in the parlor." He wants to be "at home" in the houses of His busy children, and be allowed to help them in the commonplace "chores. Because He is listening we must be careful how we speak and what we say. We don't like an honored guest to hear us speak crossly or complainingly. Those who are depressed in face and manner, in the ordinary home circle, usually flash into sprightliness when a visitor appears. A woman's voice may sound weary and mournful when she speaks to her own family. Then the telephone bell rings and she goes to answer the 'phone. Instantly there is a change. The tone and the words have a cheerful sound. Even the face will be brightened with a smile, although the listener cannot see her face. Especially will this be the case if the unseen listener be a prized friend. The speaker cannot see him, and he may be miles away, yet the reminder of him brings sunshine into the heart and face and voice of a discouraged woman.

Look up in the face of the Great Friend, and surely your bright smile will answer the smile in His eyes. Speak, remembering that He is listening; and gladness will ring out in the tones of your voice.

Remember, also, that our Lord identifies Himself with His brethren. If we speak rudely to them we are guilty of rudeness towards Him; if we are kind to the children or the downtrodden, He says: "Inasmuch as ye have done it unto one of the least of these My brethren, ye have done it unto Me.'

The little kindness and slight neglect are seen to be of really great importance when they are shown to our King. Let us make Him welcome, so that He may feel at home in our houses. Shall we treat Him as a neglected and forgotten Guest, just because work is pressing? He is willing to give wonderful help in our work if we will only turn to Him. After all, the work-if it is worth doing-is not our work but God's. He is the Master, and we are only underto be mended, the dishes to be washed were in reality "Christ's own!"

you are weary of the monotony of life and find commonplace duty dull-

"Think softly, soul, thy Lord is there, And then betake thyself to prayer." DORA FARNCOMB.

#### Gifts for the Needy.

Two gifts for the needy reached me to-day—a dollar from "a Lucknow friend", and two dollars from "a Lucknow friend." Three parcels of some "Puslinch friend." Three parcels of papers for the "shut-in" also arrived this week. I will pass on these donations as soon as possible. DORA FARNCOMB,

6 West Ave., Toronto.

The Ingle Nook Rules for correspondence in this and other Departments; (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen name is also given the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in a stamped envelope ready to be sent on. (4) Allow one month in this department for answers to questions to appear.

DEAR Ingle Nook Friends.—After Conventions of any kind there is always a great deal to talk about, is there not? Indeed that is one of the benefits of these gatherings and of all organizations-that they supply something to think about and talk about that is not mere gossip. Of late years many women's societies have been started, and some people fear we are in danger of over-organization, but I do not think so, at least so far as the rural districts are concerned. Any sensible farm woman-and most farm women are sensible -knows when she is over-taxing herself, or neglecting anything of consequence by connection with such things, and she can always withdraw. The weak spot of the old way was that women shut themselves up too completely with their own little affairs. It was a case of "me and my wife, my son John and his wife, we four, thank the Lord, no more." A mere glance at the work of the Women's Institute alone is sufficient to show how vastly superior it has been for the women of Canada to come out of their shells, and those who know most about it say that the homes have not suffered, but actually benefited, because of the new interests and new opportunities for learning modern methods in housekeeping that have come with the Institute. The U. F. W. is comparatively a young organization, but already it, too, is doing splendid work, although, perhaps, emphasizing a somewhat different line.

A dear little friend of mine who has been -living "down south" for the past year blew into my den the other day. Her husband, an officer in the U.S. army, had been overseas; she herself (a real little genius in mathematics) had been doing business for a big produce company that supplied the military camps, and she had much to tell. She raved about the beauty of the southern cities-the wide boulevarded streets with flowering trees far as eye can see, the spacious old-fashioned houses, the look of easy culture everywhere; she spoke enthusiastically of the beauty of the women, their pretty faces, soft voices and gentle manners; then she stopped. "But you know," she said, "they haven't enough to do. The men down there are more interesting than the wo-The women have everything done men. for them; they just sit on verandahs most of the time, wear pretty clothes, do fancywork, read novels and talk about things that don't amount to much. They were always marvelling at the way I worked and asking me if all the Northern women had as much energy. "I'd like to go back," she added, presently, "I loved the south and its work I did there. At the same time," rather wistfully, "you Northern women have deeper interests. You always seem to have something worth while on the go. You don't spend much time gossiping. I think that remark made me realize, more than before, the value of "keeping something worth while on the go," and that in this way, organizations for the public good stand first.

appears that its efforts have gone in big waves, as it were, each of which reached its climax in the discussions, then settled down quietly to work while another came on. The first one years and years ago when the one Convention for Ontario met in Guelph, was all for cookery and household accomplishment. The next was for the Medical Inspection of schools-a movement now so well afoot that it will not stop until every section of Ontario, yes Canada, will be covered. The third, of course, was War work; and the fourth, just now beginning to gain momentum, is for *Community* Work. By community work is meant anything and everything that brings the people together in co-operation for those things that will make the community a happier, more sociable, better-all-round place to live in. Of course that is a large order.

Glancing along its possibilities one sees not only debating societies and neighborhood convivialities, but also health campaigns, lecture courses, tree-planting days, marketing plans, community concerts, community libraries, perhaps even community moving-picture shows-this last foreshadowed in the fact that at the recent W. I. Convention in London one of the resolutions dealt with the necessity for censorship of the movies and encouragement of a wider use of educational films.

One really can't see how all this can be brought about without Community Halls, and it was pleasing to hear at the Convention that in Western Ontario several Institutes have already begun, in one way and another, to raise money for this end. Among these were the branches at Blyth, Crediton, Sebringville, and one or two other places whose names I can't remember. I should be glad by the way, if some of these branches would write a description of their methods of raising funds and send it to me for publication in the Ingle Nook. Such letters might be a great help and inspiration to other places which would like to have a Community Hall but do not exactly know how to go about raising the money for one.

It seems to me that an ideal Hall should have: (1) A good auditorium, with a roomy stage and dressing-rooms. (2) A big basement with well-equipped kitchen. (3) A cloak-room (4) A room for storing the seats when the floor-space of the auditorium is needed, and the tables (occasionally needed for banquets) at other times. Ideally the auditorium should have pictures, a handsome drop curtain that will drop, a big fire-place and a few armchairs (to transfer the place into a rest-room when needed), book-cases, magazines, and a big reading-table. If very ambitious it might have the Community Library adjoining.

Speaking of drop curtains reminds me of a funny incident. Upon one occasion, in a little Northern town, the then Attorney-General of Ontario, Mr. I. B. Lucas, was speaking. My sister, who had some part in the program, was sitting on the front seat, and, near her, a daring little schoolboy who had ventured up thus far. There was a very clumsy drop curtain with a huge wooden roller at the bottom of it, in connection with the stage, raised, of course, for the occasion. By some fault in the mechanism, just before the Attoney-General concluded his speech, the curtain began to unroll. Slowly, down and down, directly above the speaker's head, came the ponderous roller. Talk about the sword of Damocles! My sister watched in some consternation, but trusted to the good genius behind the scenes to see to it. lot so the school-boy. He hopped about on the seat for a minute in evident excitement, then called out.

aign conducted by issionaries, has been y in China. China 0 population, on an 6,000,000 die every which is likely to l another 100,000,000 eady baby clinics d Health Exhibits o those with which ut more spectacular,

\* \* the organized work-

countries opened al working women's Washington, D. C. of the meeting was gram of legislation of organized labor y the international • to be held und**er** eace Treaty.

eat Britain, France, the United States, rld Trade League form a commercial ill consider mutual try in the League titled to send two believed that this help, by removing te war.

"Which were better when the Night ends and there breaks the awful Dawn, To have dreamed in fruitless slumber, to have lain supine and gross, Or to have known the flame-wound, wherefrom the balm is drawn That heals a multitude of men?-The

Palace or the Cross?"

But our hearts instinctively seek joy. Happiness is our natural element, and we need not wait un'il this life is over to claim the Divine gift. In the Presence of God is fulness of joy, and if we live consciously in that Presence now we shall discover St. Paul's secret of rejoicing even in tribulation.

There is a story told of the great musician, Gounod, that he was going through the streets of Paris one Christmas Eve and saw a poor old man feebly playing on a musical instrument, trying to gain a few copper coins from the passersby. Gounod suggested to his companions that they should sing for him. "Remember," he said, "that it is Christmas Eve, and God Almighty

workmen, obeying His orders. A famous French pastor of the 18th century was not satisfied with inviting God to live with him, but chose the church to be his home. He was accustomed to spend hours there on his knees, "bathing in the flames of love which issued from the Divine Presence." The smile on his face, as he took the daily services, was so beautiful that his flock were filled with amazement. It seemed to them that he "saw our Lord." Many thousands of people came to his village home for spiritual help and guidance. Often there were crowds outside the church all night, waiting to speak to this friend of Christ. His influence for good was very great, because he was like a "live wire"-in continual contact with

Infinite Power. He was just a man, but God worked through him. For practical living, that is the secret-an open secret. Our powerlessness is the consequence of being too busy to spend

time with God. A monk, called Anthony, was told that a cobbler in Alexandria was holier than he was. He visited the cobbler and asked for the secret of his life. The cobbler said: "Every shoe I mend is to me Christ's own." What a joy life would be if we always remembered that the rooms to be cleaned, the clothes

Looking back over the years since the Women's Institute was founded, it

"Hi, mister! Look oùt fer yer nut!" In the interests of "nuts", then, when you build your Community Hall, see to the drop curtain.

Just here, in places where Church Union has taken hold, might not one of the disused churches be dismantled of its ecclesiastical appendages, remodelled completely, and so turned into a Community Hall? It could scarcely be put to a better use, and the saving in expense would be tremendous.

Oh, I see your beautiful hall-and don't forget that the Government will help to pay for it. Once you have it, besides forming a home for your Institute, Farmer's Club and other meetings, will bring a host of interesting things to your community,-better movies, and

concert companies, and lecturers. Above all things don't forget the lecturers. Work up an interest in them; there is no influence more educative or more inspiring. spiring. And yo r ov n section will be stimulated to 'getting up' things "getting up" things. Perhaps it will start a dramatic club ambitious enough to attempt even highclass drama, as the "Janey Canuck" Club down near Ottawa did; perhaps it will go in for sing-songs, or for a "Music and Art" society; occasionally there may be a dance. The old prejudice against dancing is gradually fading away, these days, especially since it is the fashion now to have all over by midnight, but wouldn't it be fine if more attention were paid to folk-games and all those pretty dances where each dances alone? ersonally I have not the slightest objection to round and other "partner" dances where the crowd is all right, but I like still better to see these in which the arms take a part as well as the feet,-they are so very graceful, and help so to develop the whole body in grace and symmetry. The Highland fling and Irish lilt are fine, so is the sailor's hornpipe; but I think the prettiest thing I ever saw in my life was a dance of young girls on a stage. They wore long, floating white gowns, and carried long wreaths of flowers, and as they went in sinuous curves about the stage the rhythmic movement of their bodies and arms formed a perfect poem in action. In Maeter-linck's "Blue Bird," too, there are some very pretty figures.—Do you remember "the Dance of the Hours?". . . In dancing schools such as that carried on by Mrs. Somers in Toronto, girls are taught all of these "single" dances, even to the "Highland fling." Some of you may remember the beautiful entertainment put on at Toronto Exhibition evening performance two or three years ago, when hundreds of young dancers went through the "Highland" step, Irish lilt and sailor's hornpipe. I was told afterwards that all of them were girls. The minuet and pavanne at Jubilee Park (Eaton's store) last summer were also danced by Mrs. Somer's pupils.

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\* \* \* \* TOW lest you may think Junia is becoming altogether too gay and giddy, to a more serious subject: I have been approached, lately by a distressed friend who has been deputed to buy some books for her community library. She wants to know what is new-"and good"-in recent fiction.

Unfortunately I have been much too busy to read many books of fiction this fall, but I have made note of some that I have seen written up in "The Independ-ent," and "The Bookman." I have always found it pretty safe, so far as my own taste goes, to try anything recom-mended by these two publications.

I find the following among the titles on my long list:

Fiction,—"Christopher and Columbus," by the author of "Elizabeth and her German Garden" (Doran Pub. Co., New York); "The Great Hunger," by Johan Bojar (Moffat Vard & Co. Johan Bojer (Moffat, Yard & Co., New York); "The Happy End," by Joseph Hergesheimer (Knopf Pub. Co., N. Y.); "The Arrow of Gold" (Doubleday, Page & Co., Long Island, N. Y.); "Conrad in Quest of His Youth," by Leonard Merrick (Dutton Pub. Co., N. Y.); "The Undying Fire", H. G. Wells (Mac-millan's); "Mary Olivier," by May Sin-clair; "The Gay Dombeys," by Sir Harry clair; "The Gay Dombeys," by Sir Harry Johnston; "The House of the Misty Star," Frances Millar; and in the humor-ous section; "The Life of the Party," by Irvin Cobb (Doran Pub. Co., N. Y.); "Ma Pettengill," by Harry Leon Wilson (Doubleday Pub. Co., Long Island, N. Y.), "Deep Waters" by W. W. Jacobs "Deep Waters," by W. W. Jacobs. But why stick to fiction? Biography and autobiography are even more fascinating — at least to a great many cinating — at least to a great many people. Among the newer books I find quite highly recommended by my "authorities," "Burns, How to Know Him," by William Allan Neilson; "Goethe," by Prof. Calvin Thomas (Henry Holt & Co., N. Y.); "The Journal of Leo Tolstoi." (Alfred a Knopf Pub. Co. N. Y.): "Henry Thoreau." by F. W Co. N. Y.); "Henry Thoreau," by E. W. Emerson (Houghton, Mifflin Co., N. Y.) -These books I intend to become acquainted with as soon as I can.

wood Tales," and for the older boys Fenimore Cooper's books, Henty's, and Robert Louis Stevenson's "Treasure Island" and "Kidnapped." These are, of course, old books. Among the new ones are "The Children's Fairy\* Land," by Harriet Olcott (Henry Holt & Co., N. Y.), and "The Children's Life of the Bee" Bee," by Maeterlinck (Dodd, Mead & Co., N. Y.) "The Hilltop Troop," a Scout book, by Arthur S. Pier, (Pub. Houghton, Mufflin & Co., Boston) is said to be very interesting to boy scouts.

Anyone who wants to get up children's plays might find the necessary help in "Children's Plays," by Ada Skinner (D. Appleton & Co., N. Y.)

Among the new books written by Canadians are:

"Canada's Sons and Great Britain in the World War," By Col. Geo. Nasmith, C. M. G. (Thomas Allen Pub. Co., C. M. G. (Thomas Allen Pub. Co., Toronto, \$3.50)-Col. Nasmith always writes interestingly.

"Through St. Dunstans to the Light," "Through St. Dunstans to the Light," by Pte. Jas. Rawlinson (Thomas Allen, \$1.00) "Rainbow Valley," by L. M. Montgomery; "Golden Dicky," by Mar-shall Saunders; "Joan at Halfway," by Grace McLeod Rogers;" "In Orchard Glen," by Marian Keith. "The Touch of Abner," by H. A. Cody; "Mist of Morning," by Isabel Ecclestone MacKay; "Bulldog Carney," bý W. A. Fraser; "Janet of Kootenay," by Evah McKowan. (The last eight are published by Mc-Clelland & Stewart Pub. Co., Toronto.)

A delightful and educative children's book is "Bob and Bill See Canada," by Alfred E. Uren. Bob and Bill are two young rabbits who live in a brush pile on a hill in Nova Scotia. They decide to travel to the Pacific, and start off. The story is written in rhyme and very well illustrated. The book is published by the Musson Co., Toronto; price, \$1.25.

If you cannot find these books in your nearest bookstores, write to the publishers for catalogue and prices.

Just a word in closing. At the London Convention a strong plea was put for-ward in behalf of Canadian writers. Canadian writers are grateful for all such kind interest, but I am sure they do not wish *especial* coddling. They want to take their place with the world's writers, standing or falling according to their merit. It is fine to give Canadian authors a place on your bookshelves, but do not do so to the absolute exclusion of authors of other nationalities. To do so is to become provincial, narrow, and, to a certain extent, uneducated. Imagine a certain extent, uneducated. Imagine passing by H.G. Wells, John Galsworthy, Jerome K. Jerome, E. V. Lucas, Hugh Walpole, Joseph Conrad and May Sinclair because they are English! Or St. John Ervine and Katharine Tynan be-because they are Irish! Or Blanco Ibanez because he is a Spaniard! Or Maeterlinck because he is a Belgian! Or J. M. Barrie because he is Scotch! Or Doestoevsky and Turgenev because they are Russians! Or Frnes't Poolo Winston Churchill and Mary Roberts Rinehart because they belong to the United States!

The Cookery Column. Mock Cherry Pie.

1 cup cranberries, 1 cup water, 1 cup brown or 1/2 cup seeded maple sugar raisins,

1 tablesp. flour. Boil all together stirring in the flour moistened with water; when cold add 1 teasp. vanilla and a little extract of almond. Bake with 2 crusts.

Sour Cream Pastry,

 $1\frac{1}{2}$  cups flour, 1/8 teasp. soda, 1/2 tablesp. salt, sour cream. Wet the flour with just enough cream to make a firm dough.

#### Corn Bread.

cup cornmeal,	1 teasp. salt,
cup flour,	1 <sup>1</sup> / <sub>2</sub> cups. milk,
teasps. baking	2 tablesp. shorter
powder,	ing,
tablesps. sugar,	1 egg.
B/1: 1	

milk, melted shortening, and beaten egg. Beat well and pour into a well-greased, shallow pan. Bake in a hot oven about 25 minutes.

#### Stuffed Potatoes.

Scrub the potatoes with a brush, rub with butter and bake. Break 4 of them in halves, while hot, scoop out and mash fine. Add 1 tablesp. melted bacon fat, 1/4 cup grated cheese, nearly 1/2 teasp. salt, pinch of pepper and enough milk to beat into a soft fluffy mixture. Refill the shells, brush over with melted bacon fat, dust with pepper, and brown in oven.

#### Holland Red Cabbage.

Slice red cabbage and soak in cold water. Put 1 quart in a saucepan with 2 tablesp. shortening, 1/2 teasp. salt, a sprinkle of nutmeg and few grains of cayenne. Cover and cook until tender. Add 2 tablesps. vinegar, 1 teasp. onion juice and 2 tablesps, sugar, and cook 5 minutes longer. Chop fine and serve with grated egg-yolk over.

#### **Kitchen and Furnace Fires**

Keep old gloves, an old cap and an overslip to put on when attending to the furnace, and much worry from roughened hands, dusty hair and soiled clothing will be prevented. Don't forget to keep the water-pan in the furnace filled, also, if the house is heated by stoves, keep a pan of water on each. This will prevent the air from becoming too dry for health, moreover rooms are much warmer when there is enough moisture in the air. Another fuel-economy is to shut the oven damper and leave the oven doors open so that the heat will be thrown down about the floor. To start a fire so that it will burn well, see that the sticks cross, or partially cross each other in such a way that a free current of draught upward will be permitted; a current of air under the fire causes it to burn, and the purer the air the better; no current of air under a fire and a cold over it on top will keep any fire from burning freely. To secure the best effect from the fire keep all the ovenflues and other flues free from fine ashes, and be sure that the house is well-ventilated. If coal is used never let it burn up to a white heat; keep it glowing red. Never use coal-oil, poured from a can or other vessel, to start up a smouldering fire; explosion, fire, and possibly death may be the result. If coal-oil must be used, pour some on the end of sticks of kindling, quite away from the stove, then thrust the sticks into the stove under the built-up fuel, applying a match if necessary.

FOUNDED 1866

Serial Story

"His Family."

BY ERNEST POOLE. (Serial rights reserved by The Farmer's Adpocate and Home Magazine.) Synopsis of Previous Chapters.

The central figure in this story is Roger Gale, sixty years of age when the story begins. He had grown up in the country, but at seventeen had drifted to New York, where he finally got into business, became fairly prosperous, married, and became the father of three daughters: Edith, who, when the story opens, has been married for some years, and is the too-devoted mother of four children; Deborah, a teacher, principal of one of the big schools of the city; and Laura, the wild, capricious one, who announces her engagement to a young man named Sloane. With time, at last, to rest somewhat on his oars, Roger Gale finds himself, at sixty, a somewhat lonely widower living a life apart from that of his children. He realizes suddenly that he does not even know them. He determines to "find them out," and the story is carried on in a fascinatingly interesting way. Chapter IV gives conversation between Deborah and her father, in which her suspicion of young Sloane as a suitable life-partner for Laura is unconsciously intimated. The father is worried, and, to distract him, Deborah takes him to a concert in Carnegie Hall, from which they go to Edith's for supper. The talk turns on the approaching marriage, and Edith says Deborah may find the house too much of a burden after Laura has gone. Roger feels that the home may be given up, and that this whole life is being upset. . . Chapters V. and VI. tell of the busy time preceding Laura's wedding, and the birth of Edith's child. Looking into the character of his children, Roger sees, almost with a start of surprise, himself—his youthful self in Laura's burning curiosities and venturesome spirit, his later self in Edith's dropping of all outside interests and craving to keep only to her own family. He realizes the truth of his wife's words, "You will live on in our children's lives."

CHAPTER VII.

In the weeks which followed, Roger found the peace of his home so interrupted and disturbed by wedding preparations that often retreating into his den he earnestly told himself he was through, that a man with three grown daughters was a fool to show any sympathy with the utter folly of their lives. Yield an inch and they took a mile! It began one night when Deborah said,

"Now, dearie, I think you had better make up your mind to give Laura just the kind of wedding she likes.

And Roger weakly agreed to this, but as time wore on he discovered that the kind of wedding Laura liked was a thing that made his blood run cold. There seemed to be no end whatever to the voung bride's blithe demands. The trousseau part of it he didn't mind. To the gowns and hats and gloves and shoes and trunks and jaunty travelling bags which came pouring into the house, he made no objection. All that, he considered, was fair play. But what got on Roger's nerves was this frantic fuss and change! The faded hall carpet had to come up, his favorite lounge was whisked away, the piano was re-tuned while he was trying to take a nap, rugs were beaten, crates and barrels filled the halls, and one whole bed-room stripped and bare was transformed into a shop where the wedding presents were displayed. In the shuffle his box of cigars disappeared. In short, there was the devil to pay! And Deborah was as bad as the bride. At times it appeared to Roger as though her fingers fairly itched to jab and tug at his poor old house, which wore an air of mute reproach. She revealed a part of her nature that he viewed with dark amazement. Every hour she could spare from school, she was changing something or other at home- with an eager glitter in her eyes. Doing it all for Laura, she said. Fiddlesticks and rubbish! She did it because she liked it! In gloomy wrath one afternoon he went up to see Edith and quiet down. She was well on the way to recovery, but instead of receiving solace here he only found fresh troubles. For sitting up in her old-fashioned bed, with an old-fashioned cap of lace upon her shapely little head, Edith made her father feel she had washed her hands of the whole affair.

NOVEM

"I'm tone, "about 1 wedding there. think, fo I should simple would she doe has onl run in a In di defendi he had such a s learned before t "Do y

"When to you Edith b was so Laura to adays. quite s and get "She soothing mind se "Pari

in three of mar to her to me.' "Wha ''I'd

> glance bed. having "Oh, "She When s I tried a little the we married have h

plain t children find by she love Edith g of dism "Do that?" frown.

"I n plainly underst "is Det "Wha inquire "Oh, Debora She at

and ke But w with t vaguely own lit happing Not ev "Del "in eve

Mix dry ingredients in a bowl; add the

Books are splendid Christmas gifts for children, and one is always safe in buying Kingsley's "Heroes," "Alice in Wonderland," the children's "Arabian Nights," "Robinson Crusoe, "TangleNo, no, my friends.—Do not let us be narrow. Humanity is greater than even one's own country; a good thing is a good thing wherever one finds it; and Canadian writers are too big to want to be especially coddled. -JUNIA.

#### Keeping Geraniums.

For J. T. C., Waterloo Co., Ont.

If the cellar is not too dry geraniums If the centar is not too dry geraniums may be kept by taking them up, shaking the soil off the roots, and hanging them up "heads down," in a cool, dark part. Towards spring repot, water and place in a sunny window. Some leave the plants in the pots, in a cool dark part of the cellar, letting the soil dark part almost completely. The leaves will drop off but new growth will start when the plants are brought up after a two or three months rest.

#### Worth Thinking Over.

"I never won anything without hard labor.".--Theodore Roosevelt.

"The more man develops agriculture the better for everyone.") -Sir Oliver Lodge.

Where the carefully trained child learns bad manners is a standing mystery to its watchful parents. These anxious rearers of the young are often heard propounding this query, but generally without result. Once in a while, however, out of the deep silence comes an illuminating answer.

Johnny furnished one just the other day. He had just finished a particularly toothsome dish of apple pudding, which he ate to the last morsel. Then, despite the fact that there was company at the table, he deliberately picked up his saucer and licked it clean.

"Johnny!" exclaimed his mother, after a horrified gasp, "who did you ever see do a thing like that?" "Cats," replied Johnny.

ATI WICEO 2

"Tha "Do I Do you "No, "Do "I "kno That's to run : with a just wh bent, s up to t children Debora Roge comfort when t take ou fully p hope die 'Wit Edith daughte tries to "She "If if she come to down, f ''It Her "that their libuildin the tin modern we're a ''To Roger

## al Story Family."

ERNEST POOLE. red by The Farmer's Adrocate tome Magazine.) Previous Chapters.

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discovered that the ira liked was a thing od run cold. There vhatever to the young nds. The trousseau To the gowns nind.

#### NOVEMBER 20, 1919

"I'm sorry," she said in an injured tone, "that Laura doesn't care enough about her oldest sister to put off the wedding two or three weeks so I could be It seems rather undignified, I think, for a girl to hurry her wedding so. should have loved to make it the dear simple kind of wedding which mother would have wanted. But so long as she doesn't care for that-and in fact has only found ten minutes-once-to run in and see the baby-

In dismay her father found himself defending the very daughter of whom he had come to complain. It was not such a short engagement, he said, he had learned they had been engaged some time before they told him.

"Do you approve of that?" she rejoined. "When I was engaged I made Bruce go to you before I even let him—" here Edith broke off primly. "Of course that was some time ago. An engagement, Laura tells me, is 'a mere experiment' nowadays. They 'experiment' till they feel quite sure—then notify their parents and get married in a week.'

and get married in a week." "She is rushing it, I admit," Roger soothingly replied. "But she has her mind set on Paris in June." "Paris in June," said Edith, "sums up in three words Laura's whole conception

of marrage. You really ought to talk to her father. It's your duty, it seems to me.

"What do you mean?"

"I'd rather not tell you." Edith's glance went sternly to the cradle by her bed. "Laura pities me," she said, "for having had five children."

"Oh, now, my dear girl!"

"She does, though-she said as much. When she dropped in the other day and I tried to be sympathetic and give her a little sound advice, she said I had had the wedding I liked and the kind of married life I liked, and she was going to have hers. And she made it quite plain that her kind is to include no children. It's to be simply an effort to find by 'experiment' whether or not she loves Hal Sloane. If she doesn't—" Edith gave a slight but emphatic wave of dismissal.

"Do you mean to say Laura told you that?" her father asked with an angry frown.

"I mean she made me feel it—as plainly as I'm telling it! What I can't understand, " his daughter went on, "is Deborah's attitude in the affair."

"What's the matter with Deborah?" inquired Roger dismally.

'Oh,' nothing's the mater with Deborah. She's quite self-sufficient. She at least can play with modern ideas and keep her head while she's doing it. But when poor Laura-a mere child with the mind of a chicken-catches vaguely at such ideas, applies them to her own little self and risks her whole future happiness, it seems to me perfectly criminal for Deborah not to interfere!

Not even a word of warning!" "Deborah believes," said her father, "in everyone's leading his own li

#### her skirt so tight she could barely walk, tripped by on high-heeled slippers. That was it, he told himself, the whole city was high-heeled! No solid footing anywhere! And, good Lord, how they chattered!

He turned into a less noisy street. What would Judith want if she were here? It became disturbingly clear to him that she would undoubtedly wish him to have a talk with Laura now, find out if she'd really made up her mind not to have any children, and if so to tell her plainly that she was not only going against her God but risking her own happiness. For though Judith had been liberal about any number of smaller things, she had been decidedly clear on this. Yes, he must talk to Laura. "And she'll tell me," he reflected,

"that Edith put me up to it!"

If only his oldest daughter would leave the other girls alone! Here she was planning a row with Deborah over whether poor young George should be allowed to play with rats! It was all so silly! . . . Yes, his three children were drifting apart, each one of them going her separate way. And he rather took comfort in the thought, for at least it would stop their wrangling. But again he pulled himself up with a jerk. No, certainly Judith would not have liked this. If she'd ever stood for anything, it was for keeping the family together. It had been the heart and centre of their last talks before she died.

"To come back to the wedding, father What lips she had, what a bosom. She drew a deep breath and smiled at him. "What are you doing to-morrow night?" which will make you rather wretched.

THE FARMER'S ADVOCATE.

dear," his daughter said compassionately.

'I'm afraid it's going to be a 'mere form'

When you get so you can't endure it,

of warning recurred to his mind.

Yes, here was the thing that disturbed

him most, the ghost lurking under all this

confusion, the part which had to do with himself. It was bad enough to know

that his daughter, his own flesh and blood,

was about to settle her fate at one throw.

But to be moved out of his house bag and

baggage.! Roger strode wrathfully up the

"It's your duty to talk to her," Edith had said. And he meditated darkly on

this: "Maybe I will and maybe I won't.

know my duties without being told.

How does Edith know what her mother

liked? We had our own likings, her

mother and I, and our own ideas, long

after she was tucked into bed. And yet

she's always harping on 'what mother would have wanted.' What I should like

to know-right now-is what Judith

these vexing problems, Roger felt it crowding in, this city of his children's lives. As he strode on down Broadway,

an old hag selling papers thrust one in his face and he caught a glimpse of a headline. Some bigwig woman re-divorced. How about Laura's "experi-

ment"? A mob of street urchins nearly upset him. How about Deborah? How about children? How about schools, education, the country? How about

God? Was anyone thinking? Had any-

one time? What a racket it made, slam-banging along. The taxis and motor trucks thundered and brayed, dark

masses of people swept endlessly by, as

though their very souls depended on their

dinners or their jobs, their movies, roaring

farces, thrills, their harum scarum dances,

clothes. A plump little fool of a woman,

With a pang of utter loneliness amid

would want if she were here!"

street.

As he started for home, her words

come in and see me and the baby.'

her father asked her.

"Oh, dad, my love, we have every evening filled and crammed right up to the wedding," she replied. "No—the last evening I'll be here. Hal's giving his ushers a dinner that night." "Good. I want to talk to you, my ar." He felt his voice solemn, a great

deår." mistake. He saw the quick glance from the luminous eyes,

"All right, father—whenever you like." Much embarassed Roger left the room. The few days which remained were a

crowding confusion of dressmakers, gowns and chattering friends and gifts arriving at all hours. As a part of his resolve to do what he could for his daughter, Roger stayed home from his office that week. But all he could do was to unpack boxes, take out the presents and keep the cards, and say, "Yes, my dear, it's very nice. Where shall I put this one?" As the array of presents grew, from time to time unconsciously he glanced at the engage-ment ring upon Laura's finger. And all the presents seemed like that. They would suit her apartment beautifully. He'd be glad when they were out of the house.

The only gift that appealed to his fancy was a brooch, neither rich nor new, a genuine bit of old jewelry. But rather to his annoyance he learned that it had been sent to Laura by the old Galician Jew in the shop around the corner. It recalled to his mind the curious friendship which had existed for so long between the old man and his daughter. And as she turned the brooch to the light Roger thought he saw in her eyes anticipations which made him uneasy. Yes, she was a child of his. "June in Paris—" other Junes—"experiments"—no children. Again he felt he must have that talk. But, good Lord, how he dreaded it.

The house was almost ready now, dismantled and made new and strange. It was the night before the wedding. Laura was taking her supper in bed. What was he going to say to her? He ate his dinner silently. At last he rose with the grim resolution.

"I think I'll go up and see her," he said. Deborah quickly glanced at him. "What for?" she asked.

"Oh, I just want to talk to her-" "Don't stay long," she admonished him. "I've a masseuse coming at nine o'clock to get the child in condition. to rest. Her nerves are rather tense, you know.

"How about mine?" he said to himself as he started upstairs. "Never mind, I've got to tackle it."

Laura saw what he meant to say the moment that he entered the room, and the tightening of her features made it all the harder for Roger to think clearly, to remember the grave, kind, fatherly things which he had intended to tell her.

"I don't want to talk of the wedding, child, but of what's coming after that— between you and this man—all your life." He stopped short, with his heart in his mouth, for although he did not look at her he had a quick sensation as though he had struck her in the face. "Isn't this rather late to speak about that? Just now? When I'm nervous enough as it is?"

what he could say to her. Good God. how he was bungling! Where were all his arguments?

'How about your religion?" he blurted out

"I haven't any-which makes me do

that—I've a right to be happy!" "You haven't!" His voice had sud-denly changed. In accent and in quality it was like a voice from the heart of New England where he had been born and bred. "I mean you won't be happy-not unless ou have a child! It's what you needit'll fill your life! It'll settle you-deepen you-tone you down!"

"Suppose I don't want to be toned down!" The girl was almost hysterical. The girl was almost hysterical. "I'm no Puritan-I want to live! I tell you we are different now! We're not all you we are different now! We're not all like Edith—and we're not like our mothers! We want to live! And we have a right to! Why don't you go? Can't you see I'm nearly crazy? It's my last night, my very last! I don't want to talk to you—I don't even know what I'm saying! And you come and try to frighten me!" Her voice caught and broke into sobs "You know nothing broke into sobs. "You know nothing about me! You never did! Leave me alone, can't you-leave me alone!" "Father?" He heard Deborah's voice,

abrupt and stern, outside the door. "I'm sorry," he said hoarsely. He went in blind fashion out of the room and down to his study. He lit a cigar and smoked wretchedly there. When presently De-borah appeared he saw that her face was set and hard; but as she caught the baffled look, the angry tortured light in

his eyes, her own expression softened. "Poor father," she said, in a pitying way. "If Edith had only let you alone." way. "If Edith nau only use good." "I certainly didn't do much good."

"Of course you didn't-you did harmoh, so much more harm than you know." Into the quiet voice of his daughter crept a note of keen regret. "I wanted to make her last days in this house a time she could look back on, so that she'd want to come home for help if ever she's in trouble. She has so little—don't you see?---of what a woman needs these days. She has grown up so badly. Oh, if you'd only let her alone. It was such a bad, bad time to choose." She went to her father and kissed him. "Well, it's over now," she said, "and we'll make the best we can of it. I'll tell her you're sorry and quiet her down. And to-morrow we'll try to forget it has happened."

For Roger the morrow went by in a whirl. The wedding, a large church affair, was to take place at twelve o'clock. He arose early, put on his Prince Albert, went down and ate his breakfast alone. The waitress was flustered, the coffee was burnt. He finished and anxiously wandered about. The maids were bustling in and out, with Deborah giving orders pellmell. The caterers came trooping in. The bridesmaids were arriving and hurrying up to Roger's room. That place was soon a chaos of voices, giggles, peals of laughter. Laura's trunks were brought downstairs, and Roger tagged them for the ship, one for the cabin and three for the hold, and

and shoes and trunks g bags which came ouse, he made no he considered, was at got on Roger's tic fuss and change! et had to come up, was whisked away, uned while he was , rugs were beaten, illed the halls, and stripped and bare a shop where the vere displayed. In cigars disappeared. e devil to pay! as bad as the bride. to Roger as though ned to jab and tug which wore an air of revealed a part of viewed with dark our she could spare changing something ith an eager glitter it all for Laura. and rubbish! She

one afternoon he and quiet down. way to recovery, ing solace here he ubles. For sitting ned bed, with an f lace upon her Edith made her shed her hands of

That's rot," was Edith's curt reply. "Do I lead my own life? Does Bruce? Do you?'

"No," growled Roger feelingly. "Do my children?" Edith demanded. "I know Deborah would like them to. That's her latest and most modern fad, to run a school where every child shall sit with a rat in its lap or a goat, and do just what he pleases— follow his natural bent, she says. I hope she won't come up to the mountains and practice on my children. I should hate to break with Deborah," Edith ended thoughtfully. . Roger rose and walked the room. The

Roger rose and walked the room. comforting idea entered his mind that when the wedding was over he would take out his collection of rings and carefully polish every one. But even this

hope did not stay with him long. "With Laura at home," he heard Edith continue, "you at least had a daughter to run your house. If Deborah

"'She won't!" cried Roger in alarm. "If she does," persisted Edith, "or if she begins any talk of the kind—you come to me and *I'll* talk to her!"

Her father walked in silence, his head

down, frowning at the floor. "It seems funny," Edith continued, "that women like me who give children their lives, and men like Bruce who are building New York-actually doing it all the time- have so little to say in these modern ideas. I suppose it's because we're a little too real."

'To come back to the wedding," Roger suggested.

His face relaxed as he walked on, but in his eyes was a deeper pain. If only Judith could be here.

Before he reached home he had made up his mind to talk with Laura that very night. He drew out his latch-key, opened his door, shut it firmly and strode into his house. In the hall they were putting down the new carpet. Cautiously picking his way upstairs, he inquired for aura and was told she was dressing for

Laura and was told sne was dressing for dinner. He knocked at her door. "Yes?" came her voice. "It's I," he said, "your father." "Oh, hello, dad," came the answer gaily, in that high, sweet voice of hers. "I'm frightfully rushed. It's a dinner dance to-night for the bridesmaids and the ushers." Roger felt a glow of relief. 'Come in a moment, won't you?'

What a resplendent young creature she was, seated at her dresser. Behind her the maid with needle and thread was

swiftly mending a little tear in the fluffy blue tulle she was wearing. The shaded light just over her head brought a shimmer of red in her sleek, brown hair.

"I know, I know." He spoke hurriedly, umbly. "I should have talked to you humbly. long ago, I should have known you better, child. I've been slack and selfish. But it's better late than never." "But you needn't!" the girl exclaimed.

"You needn't tell me anything! I know more than you think—I know enough!" Roger looked at her, then at the wall. She went on in a voice rather breathless: "I know what I'm doing—exactly—just what I'm getting into. It's not as it was when you were young-it's different-we talk of these things. Harold and I have talked it all out." In the brief and dangerous pause which followed Roger

kept looking at the wall. "Have you talked — about having children?"

"Yes," came the answer sharply, and then he felt the hot clutch of her hand. "Hadn't you better go now, dad?" He

hesitated. "No," he said. His voice was low. "Do you mean to have children, Laura?" "I don't know.

"I think you do know. Do you mean to have children?" Her big black eyes, dilating, were fixed defiantly on his own. "Well then, no, I don't!" she replied.

He made a desperate effort to think

saw them into the wagon. Then he strode distractedly everywhere, till at last he was hustled by Deborah into a taxi waiting outside.

"It's all going so smoothly," Deborah said, and a faint sardonic glimmer came into her father's hunted eyes. Deborah was funny!

Soon he found himself in the church. He heard whispers, eager voices, heard one usher say to another, "God, what a terrible head I've got!" And Roger glared at him for that. Plainly these youngsters, all mere boys, had been up with the groom a good part of the night. But here was Laura, pale and She smiled at him and squeezed tense. his hand. There was silence, then the organ, and now he was taking her up the aisle. Strange faces stared. His jaw set hard. At last they reached the altar. An usher quickly touched his arm and he stepped back where he belonged. He listened but understood nothing. Just words, words and motions.

"If any man can show just cause why they may not be lawfully joined together, let him now speak or else hereafter forever

hold his peace." "No," though Roger, "I won't speak." Just then he caught sight of Deborah's face, and at the look in her steady gray eyes all at once he could feel the hot tears in his own.

At the wedding breakfast he was gay to a boisterous degree. He talked to strange women and brought them food, took punch with men he had never laid eyes 2102

## THE FARMER'S ADVOCATE.



on, went off in a feverish hunt for cigars, came back distractedly, joked with young girls and even started some of them girls and even started some of them dancing. The whole affair was over in no time. The bride and the groom came rushing downstairs; and as they escaped from the shower of rice, Roger ran after them down the steps. He gripped Sloane's hand Sloane's hand. "Remember, boy, it's her whole life!"

"Kemember, boy, it's her whole he: entreated Roger hoarsely. "Yes, sir! I'll look out! No fear!" "Good-bye, daddy!" "God bless you, dear!" They were speeding away And wit

They were speeding away. And with the best man, who looked weary and spent, Roger went slowly back up the It was an effort now to talk. Thank heaven these people soon were gone. Last of all went the ponderous aunt of the groom. How the taxi groaned as he helped her inside and started her off to Bridgeport. Back in his study he found his cigars and smoked one dismally with Bruce. Bruce was a decent sort of chap. He knew when to be cilent

"Well," he spoke finally, rising, "I guess I'll have to get back to the office." He smiled a little and put his hand on

He smiled a little and put his hand on Roger's weary shoulder. "We're glad it's over—eh?" he asked. "Bruce," said Roger heavily, "you've got a girl of your own growing up. Don't let her grow to feel you're old. Live on with her. She'll need you." His massive blunt face darkned. "The world's so damnably new," he muttered, "so choked up with fool ideas:" Bruce still smiled affectionately.

"Go up and see Edith," he said, "and forget 'em. She never lets one into the flat. She said you were to be sure to

come and tell her about the wedding." "All right, I'll go," said Roger. He hunted about for his hat and coat. What a devilish mess they had made of the house. A half hour later he was with Edith; but there, despite his efforts to answer all her questions, he grew heavier an heavier, till at last he barely spoke. He sat watching Edith's baby. "Did you talk to Laura?" he heard her



room sofa and lay motionless for a while How tired he was. From time to time he drearily sighed. Yes, Deborah would find him old and life here dull and lonely. find him old and life here dull and lonely. Where was she to-night, he wondered. Couldn't she quit her zoo school for one single afternoon? At last, when the room had grown pitch dark, he heard the maid lighting the gas in the hall. Roger loudly cleared his throat, and at the sound the startled girl ejaculated, "Oh, my Gawd!" "It's I," said Roger sternly. "Did Miss Deborah say when she'd be back?"

"She didn't go out, sir. She's up in her room." Roger went up and found her there. All afternoon with both the maids she

had been setting the house to rights, and now she ached in every limb. She

and now she ached in every limb. She was lying on her bed, and she looked as though she had been crying. "Where have you been?" she inquired. "At Edith's," her father answered. She reached up and took his hand, and held it slowly tighter. "You aren't going to find it too longly

held it slowly tighter. "You aren't going to find it too lonely here, with Laura gone?" she asked him. And the wistfulness in her deep sweet voice made something thrill in Roger. "Why should I?" he retorted. Deborah gave a queer little laugh. "Oh I'm just silly that's all." she

"'Oh, I'm just silly, that's all," she said. "I've been having a fit of blues, I've been feeling so old this afternoona regular old woman. I wanted you, dearie, and I was afraid that you—" she

"Look here," said Roger sharply. "Do you really want to keep this house?" "Keep this house? Why, father!"

"You think you can stand it here alone, just the two of us?" he demanded. "I can," cried Deborah happily. Her

father walked to the

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Roger wo

"Yes," he replied. "It did no good." He knew that Edith was waiting for more,

He knew that Edith was waiting for more, but he kept doggedly silent. "Well, dear," she said presently, "at least you did what you could for her. "I've never done what I could," he joined. "Not with any one of you." He glanced at her with a twinge of pain. He glanced at her with a twinge of pain. "I don't know as it would have helped much if I had. This town is running away with itself. I want a rest now, Edith, I want things quiet for a while." He felt her anxious, pitying look. "Where's Deborah?" she asked him. "Gone back to school already?" "I don't know where she is " he replied

Sone back to school aneagy: "I don't know where she is," he replied, nd then he rose forlornly. "I guess I'll And then he rose tortormy. If guess 1 if be going back home," he said. • On his way, as his thoughts slowly cleared, the old uncasiness rose in his mind. Would Deberah want to keep the house? Suppose she suggested moving to some titty-thaty little flat. No, he would not strud in her way. But,

Dut, Lord, what an end to make of his me. His bone was almost dark inside, but he noticed rather to his surprise that the raches had already been put in order. He said, down on the living

V hen writing advertisers will you kindly mention The Farmer's Advocate.

as he looked blindly out, his eyes were assaulted by the lights of all those tittytatty flats. And a look of vicious triumph

appeared for a moment on his face. "Very well," he said quietly, turning back. "Then we're both suited." He went to the door. "I'll go and wash up for supper," he said.

#### CHAPTER VIII.

It was a relief to him to find how smoothly he and Deborah dropped back into their old relations. It was good to get home those evenings; for in this new stage of its existence, with its family of two, the house appeared to have filled itself with a deep reposeful feeling. Laura had gone out of his life. He glanced into her room one night, and it looked like a guest room now. The sight of it brought him a pang of regret. But the big ship which was bearing her swiftly away to "Paris in June" seemed bearing off Roger's uneasiness too. He could smile at his former fears, for Laura was safely married and wildly in love with her husband. Time, he thought, would take care of the rest. Occasionally he missed her here—her voice, high-pitched but musical, chatting and laughing at the phone, her bustle of dressing to go out, glimpses of her extravagances, of her smart suits and evening gowns, of all the joyous color and dash that she had given to his home. But these regrets soon died away. The old house shed them easily, as though glad to enter this

But ag down, an back befo himself do assistants work in tables lor with colo were der newspaper little by li how whil of the cou studied th patrons, I new Amer Clipping ness men corporatio pings, new keeping 1 affairs for How save Here was factories a each mor down-town before the wrote, "P the followi each day office eve informatic low." T Roger's fa tinent. A 'Remembe leave your



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Roger sharply. keep this house? /hy, father!" tand it here alone, lemanded., orah happily. Her

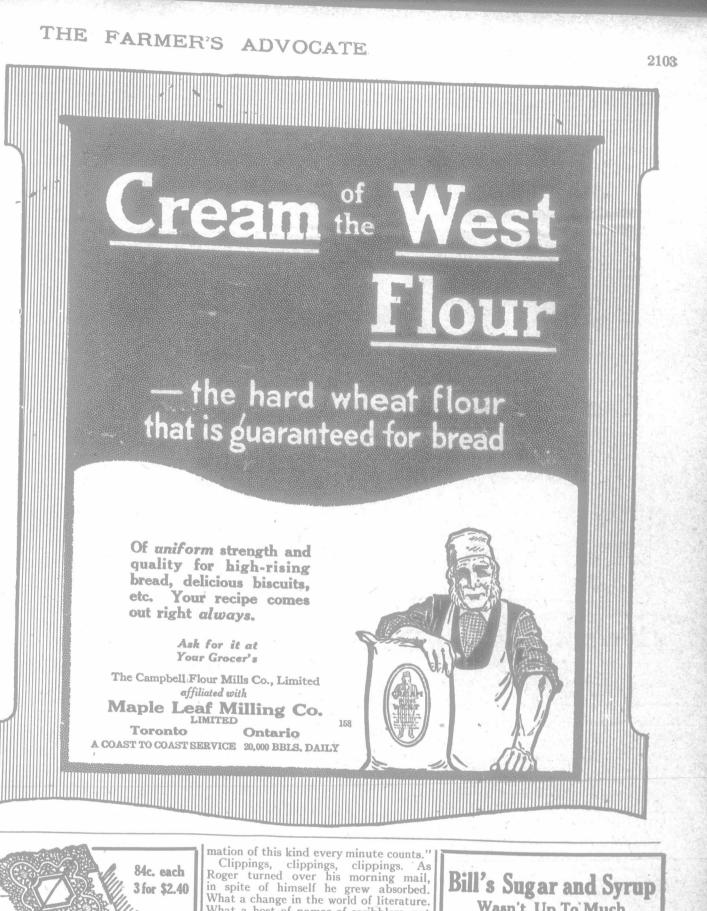
#### **NOVEMBER 20, 1919**

For the story of his family, from Roger's point of view at least, was a long uneven narrative, with prolonged periods of peace and again with events piling one on the other. And now there came one of those peaceful times, and Roger liked the quiet. The old routine was re-established—his dinner, his paper, his cigar and then his book for the evening, some good old-fashioned novel or some pleasant book of travel which he and udith had read aloud when they were planning out their lives. They had meant to go abroad so often when the children had grown up. And he liked to read about it still. Life was so quiet over the seas, things were so old and mellow there. He resumed, too, his horseback rides, and on the way home he would stop in for a visit with Edith and her baby. The wee boy grew funnier every day, with his sudden kicks and sneezes, his waving fists and mighty yawns. And Roger felt drawn to his daughter here, for in these grateful seasons of rest that followed the birth of each of her children, Edith loved to lie very still and make new plans for her small brood.

Only once she spoke of Laura, and then it was to suggest to him that he gather together all the bills his daughter had doubtless left behind.

"If you don't settle them," Edith said, "they will go to her husband. And you wouldn't like that, would you?" Roger said he would see to it, and one evening after dinner he started in on Laura's bills. It was rather an appalling time. He looked into\_his bank account and found that Laura's wedding would take about all his surplus. But this did not dismay him much, for money matters never did. It simply meant work in the office.

The next day he rose early and was in his office by nine o'clock. He had not been so prompt in months, and many of his employees came in late that morning. But nobody seemed very much perturbed, for Roger was an easy em-ployer. Still, he sternly told himself, he had been letting things get altogether too slack. He had been neglecting his business again. The work had become so cut and dried, there was nothing creative left to do. It had not been so in years gone by. Those years had fairly bristled with ideas and hopes and schemes. But even those old memories were no longer here to hearten him. They had all been swept away when Bruce had made him move out of his office in a dark creaky edifice down close under Brooklyn Bridge, and come up to this new building, this steel-ribbed caravansary for all kinds of business ventures, this place of varnished wood-work, floods of daylight, concrete floors, this building fireproof throughout. That expressed it exactly, Roger thought. Nothing could take fire here, not even a man's imagination, even though he did not feel old. Now and then in the elevator, as some youngster with eager eyes pushed nervously against him, Roger would frown and wonder, "What



What a host of names of scribblers, not authors but just writers, not only men but women too, novelists and dramatists, poets and muckrakers all jumbled in together, each one of them straining for

Bill's Sugar and Syrup Wasn't Up To Much That's what his neighbors s id, they were right too, but there were reasons, this sap was not fresh enough or clean enough, his boiling outfit was out-of-date and he scorched the whole batch. He did a lot of hard work with poor results. It is all a question of proper outfit. With a **GRIMM CHAMPION** Outfit in your maple grove you are sure of making the best possible syrup and sugar. Do it cleanly and quickly and get more money out of it. Scrap your old outfit and make some-thing worth while out of your sugar bush. We can help you a lot if you write us.

window. There ut, his eyes were of all those tittyof vicious triumph on his face. quietly, turning oth suited." He go and wash up

#### VIII.

im to find how ah dropped back It was good to ; for in this new ith its family of d to have filled ul feeling. Laura He glanced into d it looked like he sight of it of regret. But aring her swiftly seemed bearing too. He could for Laura was in love with her ght, would take onally he missed igh-pitched but aughing at the ssing to go out, gances, of her gowns, of all h that she had t these regrets old house shed d to enter this

are you so excited about?"

But again the business was running down, and this time he must jerk it back before it got beyond him. He set himself doggedly to the task, calling in his assistants one by one, going through the work in those outer rooms, where at tables long rows of busy young girls, with colored pencils, scissors and paste were demolishing enormous piles, of newspapers and magazines. And vaguely little by little, he came to a realization of how while he had slumbered the life of the country had swept on. For as he studied the lists and the letters of his patrons, Roger felt confusedly that a new America was here.

Clippings, clippings, clippings. Business men and business firms, gigantic corporations, kept sending here for clippings, news of themselves or their rivals, keeping keen watch on each other's affairs for signs of strength or weakness. How savage was the fight these days. Here was news of mines and mills and factories all over the land, clippings sent each morning by special messengers down-town to reach the brokers' offices before the market opened. One broker Wrote, "Please quote your terms for the following: From nine to two o'clock each day our messenger will call at your office every hour for clippings giving information of the companies named be-The long list appended carried Roger's fancy out all over the continent. And then came this injunction: "Remember that our messenger must leave your office every hour. In infor-



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And the actors and the actresses, a place. the musicians and the lecturers, each with his press agent and avid for publicity "fame!" And here were society women, from New York and other cities, all eager for press notices of social affairs they had given or managed, charity work they had conducted, suffrage speeches they had made. Half the women in the land were fairly talking their heads off, it seemed. Some had been on his lists for years. They married and wanted to hear what was said in the papers about their weddings, they quarreled and got divorces and still sent here for clippings, they died and still their relatives wrote in for the funeral notices. And even death was commercialized. A maker of monuments wanted news "of all people of large means, dead or dangerously ill, in the State of Pen-nsylvania." Here were demands from charity bodies, hospitals and colleges, from clergymen with an anxious eye on the Monday morning papers. And here was an anarchist millionaire! And here was an insane asylum wanting to see itself in print!

With a grim smile on his heavy visage, Roger stared out of his window. Slowly the smile faded, a wistful look came on his face.

"Who'll take my business when I'm gone? If his small son had only lived, with what new zest and vigor it might have been made to grow and expand. If only his son had been here by his side.



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## **Current Events**

THOMAS F. HOW

General Manager

The Parliament of Canada was prorogued on Nov. 11th. \* \* \* \*

The Quebec Legislature will meet early in December.

The members of the Drury Cabinet were sworn in at Toronto on Nov. 14. \* \* \* \*

A handsome Soldiers' Memorial Hall, the first completed in Canada, was opened at Cobden, Ont. \* \* \* \*

Hart House, a memorial of the late Hart Massey, was formally opened presented to the Toronto University, by members of the Massey family, on Armistice Day.

## Do Your Banking by R. F. D.

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summer resort, the Prince placed, wreath on the tomb of Washington,

The U. S. Senate, by a solid lineup of Republicans, reinforced by four Demoof Republicans, reinforced by four Demo-cratic voters, refuses to adopt the League of Nations Covenant without modifica-tion of Article 10, which pledges America to help European nations in case of necessity. On his western tour, suddenly ended by his collapse, President Wilson asserted that to remove this article would be to cut the heart out of the Covenant, and result in rejection of the Treaty, which stands upon the League of Nations.

William E. Johnson, head of the small band of United States workers now in England in the interests of prohibition, was mobbed and beaten in London, chiefly by a band of medical students, before rescued by the police.

Countess Leo Tolstoi, wife of the great Russian writer, died at Yasnaya Poliana. She was the mother of 16 children.

#### Some Filipino Proverbs.

Lord Bacon said, "The genius, wit and spirit of a nation are discovered by its proverbs." The following have been handed down by mouth from generation to generation of the Filipino people, Most of them suggest that human nature is pretty much the same on both sides of the globe.

BRAVERY-A hero is braver for his It is too late to withdraw when you

are already wounded.

wounds.

CAUTION-A fish is caught by the mouth.

Repentance never comes first. Courage is of two sorts; one goes forward, the other retires.

Haste creates delay.

There is a snake in every jungle. CHARACTER-Which ever side a tree leans, there it falls.

'Tis easy to be born, 'tis hard to be a

man. He who is raised in ease is usually

destitute. CHOICE—He who is hard to suit will

choose the worst. COMPENSATION-You laugh to-day, I

laugh to-morrow. Counsel.—He who despises counsel is on the way to misfortune.

Whoever believes everything said has



'Phone 66

Packs of wolves, in unusual numbers, are roaming about near the settlements in the far North West.

An annual clinic, conducted by some of the highest medical and surgical author-ities in America, was held in Hamilton Ontario, last week.

The Department of Agriculture in Quebec has procured a number of tractors which will be sold to farmers at cost price.

\* \* \* \*

On Nov. 10, after a stormy passage through the Senate, the two Prohibition Bills were signed by the Governor General.

The degree of Master of Household Science was conferred upon Miss Edith Rayside, (a graduate of Queen's '96) by Toronto University.

Several lives were lost by the wrecking of the H. E. Runnels and John B. Owen, on Lake Superior, during the recent storm.

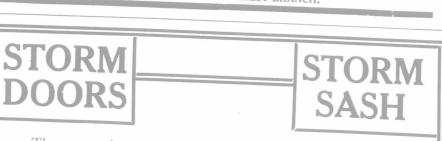
W. U. Harvey, nominated by the Farmers and endorsed by the Liberals, was elected by acclamation to the seat vacated in the Saskatchewan Legislature by Hon. W. R. Motherwell, to contest the riding in the Federal Legislature.

On Nov. 11th, obeying the mandate of of the U. S. Federal Court, the miners' strike was cancelled, but negotiations for a new wage agreement will be undertaken.

The Prince of Wales was given a great reception in Washington, where he visited the President in his sick-room. Before leaving for a three-days' rest in a Southern

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TWO DOLLARS will only buy to-day what One Dollar bought ten years ago. Plan to carry \$5,000 insurance Write to-day for speciman policy and literature Excelsior Life Insurance Co. Head Office: Toronto, Ontario

no mind of his own. DISDAIN—You may dislike, but never despise.

FAULT-FINDING—The fault-finder has the biggest faults.

FOOLS-A wise man's joke is believed by a fool.

Fools earn for the wise. It is foolish to argue with a fool.

FORESIGHT-Strength yields to plan. Working early is better than working hard.

FORGETFULNESS-He who is happy is

forgetful. FRIENDSHIP-Let us fight, then be friends.

GOOD DEEDS-Good deeds are more precious than gold and silver.

Kindness is a great capital. GRATITUDE—Kindness is with kindness

to be paid, not with gold and silver. Номе, Love ог—The pain of a finger is

the suffering of the whole body. HONOR—Even the poor love honor. Break your head, but not your word.

HOPE-It may be mere mud, but above it is a piece of heaven.

I should not grieve over my misfortune, for what muddy water did not become clear?

HOSPITALITY-Though my house is small, my heart is large.

INDUSTRY-A sleeping shrimp is carried away by the current.

A lazy dog does not get even bones.

Work put off ends in nothing. He who is always preparing to do something, never does anything.

MERIT-The quality of gold is known

by rubbing it against stone. MODESTY—He who is high suffers a great fall.

The fly that rests on the back of a carabao (water buffalo) thinks it is taller than the carabao.

Boastfulness drives away wisdom. Do not brag before landing the fish.

PERSEVERANCE — A thing is near, though far, if you want it.

If you want eggs, put up with the cackling of the hen.

either b English lies abe Botha 1 his rema know th under B that foll ciled by and the When their gre responsi Dutch chiefly policy fr He ne had tak British I British sense to not stan both as country He was,

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the Prince placed mb of Washington.

nate, by a solid lineup einforced by four Demouses to adopt the League nant without modifica-, which pledges America an nations in case of s western tour, suddenly lapse, President Wilson emove this article would rt out of the Covenant, jection of the Treaty, n the League of Nations.

Johnson, head of the ited States workers now interests of prohibition, d beaten in London d of medical students, the police.

Tolstoi, wife <mark>of the</mark> riter, died at Yasnaya as the mother of 16

#### pino Proverbs.

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ortune. s everything said has NOVEMBER 20, 1919

If you are afraid of every dog bark, you will never reach your destination.

PRIDE-Do not be too near your superiors, lest they trample upon your dignity.

RIGHTEOUSNESS-He who deviates from a clear path may lose his way. RUMOR—A whisper is louder than a

shout.

SHREWDNESS-If you want to fool, pretend to be a fool.

TEMPTATION-A piece of green wood will burn if placed near the fire long enough.

A wanderer will sooner or later slip. A soft snare has a tight hold.

THRIFT-Easy earning means quick spending.

TRUTH-A liar loves to take an oath.

#### The Late General Botha.

Louis Botha was in all things a typical South African. He was typical in his great height and frame, in the stoutness his later years, in his veldt-craft, in his love of the open and of horses, cattle and sheep; he was typical also in his mind; in natural sense and shrewdness, which in spite of his apparent simplicity gave him the advantage in dealing with many a highly-cultured European

He was born in 1863, it is said in Natal, so that by birth he was a British subject, but almost all his life he was a Burgher of the South African Republic. At an early age he became a member of the First Volksraad, representing Bryheid. Like Joubert and a good many other Boers of the better class, he opposed Kruger's narrow and fanatical policy. He opposed also the methods of the Presi-dent's clique. He never belonged to the bitter anti-British party in South Africa. Although he took part in politics as a Moderate, his favorite study was war and his favorite character Napoleon. He read every book he could obtain on the life of the Emperor, and by these early studies mastered the principles of war.

When war was at last declared he went into it with a greater zeal and a wider comprehension than General Joubert. From the very first he urged a forward policy, and it was to him that Kruger sent his telegram: "May the Vierkleur soon wave over a free harbor," meaning, of course, the port of Durban. In the advance on Dundee he at first acted under Lukas Meyer, but when that General lost his nerve and deserted his army, Botha took over command. His generalship on conquered the Boer's almost superstitious distrust of youth, which almost equalled that of the British, and Colenso and Spion Kop proved his generalship. His forward policy, opposed by Joubert, would have led the Boers to the sea, but the old man insisted on that fatal de-fensive policy which lost to the Boers their only chance of success. When the Tugela Heights were captured Botha saved his forces by the skill with which he organized the retreat. When Joubert died in the spring of 1900 the war was already lost. Nevertheless, Botha reorganized the army and harassed, although he could not stop, Lord Robert's advance. It would be useless to recount the various guerrilla actions which followed. Sufficient to say that General Botha won the respect of foes as well as friends. He never showed either brutality or bitterness, and when English traitors slandered their race with lies about the concentration camps, Botha brought them to confusion with his remark: "We are only too glad to know that our women and children are under British protection." In the peace that followed General Botha was reconciled by the statesmanship of Lord Milner and the tact of Joseph Chamberlain. When the Liberal Government made their great gamble of giving South Africa responsible government, and giving the Dutch an electoral majority, it was chiefly General Botha who saved that policy from disaster. He never for a moment forgot that he had taken the oath of allegiance to a British King, and he was proud to wear a British General's uniform. His clear sense told him that South Africa could not stand alone, and that its prosperity both as an agricultural and industrial country depended on the British Empire. He was, therefore, by intellectual conviction, a loyal British subject, and this conviction he shared with his great friend and colleague, General Smuts. He laid it down with courageous firmness that "the flag question was settled for eyer." As

#### chief Transvaal delegate to the Union Convention he played, as always, a moderating part, and he was an honored and appreciative guest of this country at the Colonial Conferences of 1907.

His Moderate views were opposed to the racial fanaticism and Republican bitterness of General Hertzog, who led the Nationalist movement and who was General Botha's most redoubtable opponent in South African policy. This opposition led to a cordial co-operation with the British Unionist Party in South Africa. There was more than political interests between General Botha and Dr. Jameson. There was a close and cordial friendship. These two trusted and under stood each other and worked in loyal comradeship for the good of South Africa and the British Empire. There was never a more remarkable case of co-operation between a Prime Minister and a leader of the Opposition.

When war broke out General Botha found himself confronted by a very dangerous situation. The Boer Nationalists, fired by General Hertzog's eloquence, and not understanding the subtlety which distinguished between disloyal talk and disloyal action, took up arms in a desperate attempt to use the British em-barrassment to establish the independence of South Africa. This movement was supported by De Wet, who had a deep personal grudge, inspired, it is said, by jealousy, against General Botha, and by General Beyers, who was then in com-mand of the Union Forces, and who is said to have been seduced from his loyalty, when he visited Europe, by the German Emperor himself.

It is unnecessary here to describe the magnificent skill and energy with which General Botha and General Smuts suppressed the rising. It was a very formid-able movement. The treachery of General Beyers had placed a large part of the available rifles in the hands of the rebels, and, as they were numerically strong, if they had been allowed to concentrate the position would have been very dangerous. But Botha and General Smuts never allowed the rebel plans time to fructify. By a skilful use of the railway they kept them continually on the move, and so disposed their forces that the rebels were defeated by sheer strategy and almost without a battle.

Having crushed the rebellion, he took a force of between 40,000 and 50,000 men over a waterless country with an almost Incredible speed. In less than a week he had marched 120 miles. His infantry marched 250 miles on the heels of his cavalry, and were only three days behind. The forces also made skilful use of the motor-car, and thereby prevented the union of the rebels and the Germans. Victory was quick and complete, but it had the unfortunate effect of over-straining the General's strength. His sedentary life after the Boer War had unfitted him for the strenuous incidents of the campaign in German South-West Africa, the most waterless and barren region of South Africa. General Botha's greatest achievement, however, was to maintain South African sentiment against the constant attempts of the enemies of England to stir up trouble between the races, black and white, and between Dutch and English. In one of his speeches he said that the plot against South Africa, if he told it, "would make the hair of South Africans to rise on end." As a matter of fact, he knew, and it can now be stated, that the Germans had prepared a force of some 20,000 reservists in South America, and had intended, if they had succeeded on the sea, in transporting them to Ger-man S.-W. Africa to use that country as a base of operations for the conquest of the Union. Throughout the years that followed General Botha maintained a position in South Africa, while General Smuts represented the Union Government in Europe. The combination of General Botha's steadiness and General Smuts' skill was perhaps one of the most remarkable phenomena in the history of the war. Throughout, General Botha's speeches show his unswerving grasp of the situation. He knew the great ambitions and designs of the Germans, and he knew also that the fortunes of South Africa were wrapped up with the British Empire. His visit to this country in December of 1918 is too recent to require description here. In his enfeebled state of health his indomitable spirit never failed, and his commonsense and sanity were of the greatest value to the counsels of the

Auction Sale of **PURE-BRED HOLSTEINS** 30 At the Arlington Yards, WOODSTOCK, on

2105

## Thursday, November 27th, at 1 o'clock p.m.

Included in sale is a cow closely related to Madame Posch Pauline, a sister to a thirty-pound three-year-old, daughters of twenty-pound cows, and others just as good. There are twenty cows and ten yearling heifers. Also three bulls with good official backing. The herd sire is a son of a 21.03-fb. junior 3-year-old, and a son of Prince Colanthus Abbekerk. These are all good milkers and heavy producers.

WM. PULLIN, Auctioneer

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**Toronto Fat Stock Show** 

December 11th and 12th Do not put off until the last day. You may be too late. Mail entries to-day.

Entry forms and premium list on application.

**Box 635** West Toronto

## **EARN MONEY IN SPARE TIME**

Boys and Girls, living in the country, often want some

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Do you know, that The Farmer's Advocate and Home Magazine makes a standing offer to subscribers and members of their families to act as local agents in securing New Subscribers to the paper?

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Is so well known, and Canadian farmers have so much confidence in it, that the work of securing new subscribers is easy and pleasant.

You can do the work whenever and wherever you like. Use your spare moments, and go to see those living near you who do not take the paper.

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Fill out the attached coupon and send it to us as soon as possible.

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· · · · · · · · · · · · · · · · · · ·	money by a	sending i	in the names o	f new subscrib	ers
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AFRICAN GEESE, BOURBON RED TUR-KEVS, White African Guineas, Muscovy, Indian Runner, Wild Mallard Ducks, Barred Rock, Rhode Island Red Cockerels. Mrs. John Annesser, Tilbury, Ont.

BARRED ROCK COCKERELS, THREE each, From best laying strains in Ontario. Buy early and get your pick. J. F. Worden & Son, Picton, Ont. R. R. 8.

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FOR SALE—PURE-BRED WHITE LEGHORN and White Wyandotte Cockerels, bred from prize-winning stock, \$3.00 each. Esra Stock, Woodstock, Ont.

FOR SALE—ROSE COMB BROWN LEGHORN bred-to-lay, Males and females at most reason-able prices. Galloway & English, Ingersoll, Ont.

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MAMMOTH BRONZE TURKEYS—A FEW young toms and hens to sell. I can furnish pairs not akin. At Guelph, nineteen-sixteen and seven-teen, I won as many prizes as all the exhibitors in Bronze turkeys, Nineteen-eighteen winning five firsts and six seconds in six classes, also special for best male and female in Bronze, turkeys. Also a few young ganders and geese in Africans and Emdens, bred from Guelph winners. Geo. Neil, Tara, Ont.

PEDIGREED COCKERELS, BARRED ROCKS, \$5.00, from 260 and 254 egg hens. Ten pullets laid 2034 eggs in eleven months. F. Coldham, Box 12, Kingston, Ont,

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COLLIE PUPS, PEDIGREED, SIRED BY imported Bucclench Specialist Dam Elgin Colleene. Arthur Gilbert, Mount Elgin, Ont.

FERRETS FOR SALE AT \$4.50. APPLY R. C. Whaley, Brownsville, Ont.

ONE HUNDRED ACRES, COUNTY OF Perth, Township Northeast Hope, Lot twelve, Concession three. Seventy-five acres, clear and under cultivation, eighteen acres hardwood bush, eight acres stump land, bank barn, stone dwelling, excellent land. Farm may be purchased with or without season's crop, stock and implements. For particulars apply on farm or to A. W. Hamilton, Lucknow, Ont.

WANTED-TO PURCHASE FARM, WITH or without stock and implements. Write John Nichol, care of Merchants' Bank, Sherbrooke, Que.

WANTED — WORKING MANAGER — 300-acre stock and grain farm, situated four miles south of Kerwood, Ontario. Must be prac-tical, efficient and reliable, and show good refer-ence. Charles Murby, Room No. 105 Exchange Bldg... Union Stock Yards, Chicago, Ill.

150 ACRES OF CHOICE LAND IN NEW Ontario, 40 acres cleared, 50 acres burned, chopped and seedet; House 18 x 30, Barn 40 x 56, Implement Shed 23 x 40; suitable for mixed farm-ing or growing seed potatoes; railway switch on place; close to school, church and store. Price and particulars apply: Ernest Winlaw, Heaslip, Ont.

Allies, especially as regards British Empire problems. It is said to have been at his suggestion that General Hertzog was received by Mr. Lloyd George, and Mr. Lloyd George's speeches obviously bear the mark of Botha's statesmanship.

He left this country a worn-out man. Between Plymouth and Madeira he had a

ships, the average Dutchman, the com-mon-sense normal South African, knew that he could always trust Botha to be staunch to the Dutch agricultural interest.

One of General Botha's last achievements in connection with the world war was to secure reasonably good treatment for the Overseas cadets who were in Officers' Training Corps or Officers' Cadet Battalions in this country when the Armistice was signed. All these men were on their way to commissions in the Imperial Forces. Many of them had seen service overseas; some had come to England holding temporary commissions in Colonial forces; others had been sent here with recommendations for commissions from the officers under whom they had served in one or other of the African campaigns. The proposal of the War Office was to send all these fine young fellows home without the "stars' which most of them had well earned, and to which all of them aspired. Our authorities were so sadly lacking in imagination that they did not seem to realize what harm might be done to the Empire if thousands of the best class of young soldiers were allowed to go to their distant homes with the feeling that they had been ungenerously treated by the Mother Country. The matter was brought to General Botha's attention. He saw at once what a blunder was being made, and insisted that every Overseas made, and insisted that every Overseas Cadet should receive a commission before leaving England. The officials concerned pointed to the "regulations," but General Botha was not a man to be frightened by red tape. There was a short but sharp contest between the Union Premier and Whitehall officialdom Coneral Botha Whitehall officialdom. General Botha won, and the Cadets went home rejoicing, each with a second lieutenant's star to display to his admiring friends at home. World Wide.

#### **Beef Production in** England.

"Cattle and the Future of Beef Pro-duction in England," which has been written by K. J. J. Mackenzie, M.A., the Reader in Agriculture in the Uni-veristy of Cambridge is a work that veristy of Cambridge, is a work that cannot fail to attract much attention, and no little criticism, at the hands of British stock breeders and stock feeders and rearers. This is clearly recognized by the author, who tells us, in his preface, that he knows, only too well, that much of my text will strike a blow at practical men in that which, after their honor, they cherish most — their pre-judice." We do not agree with the main conclusion he arrives at-and which is the logical conclusion of his main arguments-which appears to be that we should utilize the powers of our dualpurpose cattle to the full, and only prepare them for the butcher for beef after their dairy utilities have been exploited to the full. This means the production of inferior beef at home, and depending upon imports for the beef of high quality to which the people of this

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reason why the ideal of quality should not in itself be a good one and worthy of taking a pride in. We should preter to describe the production of high-quality beef-and making the best of our 'dual purpose'' cattle on the beef side as well as on the milk side—as a justifiable pride rather than "prejudice." And in the management and best use of our cattle stocks there is one condition absent that makes any comparison with continental practices very inopposite. On the continent cattle are still largely used for draught purposes—a use that has long and happily, been discarded in this country. The young bulls which would be used largely for this purpose can therefore, be best utilized by steering and converting into high-quality beef in the quickest and most economic manner

ALBION.

#### Horse Classes at Toronto **Provincial Winter Fair**

We are informed by the Secretary of the Ontario Provincial Winter Fair that several changes have been made in the prize list for horses and additional cash prizes offered. The changes are as follows:

The cash prizes offered in the various classes for horses has been increased by several hundred dollars for the 1919 Fair. In addition several important changes have been made in the prize list as to classes and sections.

A class for Belgian stallions any age has been added and in the following breed -Percheron, Hackney, Standardbred and Thoroughbred there are now fou classes for stallions instead of three as formerly. The various sections now read:

Section 1, stallion foaled previous to January 1st, 1916; section 2, stallion foaled in 1916; section 3, stallion foaled in 1917; section 4, stallion foaled on and after January 1st, 1918.

The Ontario Horse Breeders' Associa tion is offering special prizes of 1st \$6;2nd,\$4 to be awarded to Ontario breeders of first and second prize winning animals in all Horse Classes.

Walker House Trophy. A handsome silver trophy, to be competed for annually at the Ontario Provincial Winter Fair and to be given for the "Grand Champion, Canadian-bred, heavy draught 2 years and over," recorded in the synthesis of the synth females and in 1919 will be given for the Grand Champion Stallion. A minia ture of this cup to be given to the winner each year.

Bright Special. A cash prize of \$20 will be given to the "Grand Champion, Canadian-bred, heavy draught, 2 years and over," recorded in the exhibitor's name in the Canadian National Live Stock Records, Ottawa, to be competed

<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>	continued to do his duty and support his party and his cause on his return to South Africa it was soon obvious that he could not live very long. His death is one of the greatest losses that the British Empire could possibly sustain at the present moment. The future of South Africa is perplexed and dangerous owing to the ceaseless activities of the enemies of the British Empire, and we can only hope that the loyalty of the party which General Smuts now leads, and the British acting together, will defeat the dangerous propaganda of the Nationalists, who are backed now, as always, by German intrigue. In private life he was happy on his farm and with his family; it was not, however, the simple patriarchal peasant life of a Kruger or a Joubert. For General Botha was a cultivated man, and his wife is a charming, clever and well-read wo- man. It was the home, therefore, not of a peasant but of a gentleman. In his disposition he was kindly, humane, and good-humoured. He loved good com- pany, and delighted in the society of cheerful companions like Sir Starr Jameson, Sir Thomas Smartt, and Sir Percy FitzPatrick. When in England he was happiest when staying at the country house of his friend, the Marcuer	rate, is how we read the author's rather round-about way of putting this. "At a price," he tells us, "the carcasses of the descendants of our much-boasted pedigree stock will be returned to us in admirable condition in the freezers of ocean-going ships. Though the amount of soil awaiting the land-robber is limited, there is enough of it left to last until Europe has recovered from this war A nation accustomed to prime meat is more than likely to go on eating it while it can, even though it be shown that its place of origin is inserve?"	for alternately by males and females and to be given in 1919 for the Grand Champion Mare. W. A. Dryden, of Brooklin, writes: "I have had a good trade for my Shop shire rams, both in imported and lambs of my own breeding. All of the imported rams are away except two of the best which I reserved for use upon the splendid of imported ewes which I am now exceptionally well-bred, typical lot of Shropshires, and are the right kind for anyone wishing to add fresh blood to their flock or for the foundation of new flocks. I shall be glad to hear from any- one who buys these in-lamb ewes should be able to grow their own flock header for another season."

ideal of quality should a good one and worthy le in. We should prefer roduction of high-quality on the best of our 'dualon the best side as well de—as a justifiable pride rejudice.'' And in the debest use of our cattle debest use of our cattle a best use of our cattle best use of our cattle parison with continental pa

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lorse Breeders' Associaspecial prizes of 1st, varded to Ontario breedcond prize winning an-Classes.

Trophy. A handsome e-competed for annually Provincial Winter Farven for the "Grand ian-bred, heavy draught ," recorded in the exin the National Live Ottawa. This trophy ternately to males and 919 will be given for bion Stallion. A miniabe given to the winner

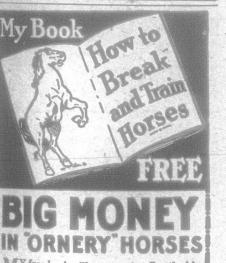
A cash prize of \$25 the "Grand Champion, eavy draught, 2 years ded in the exhibitor's nadian National Live ttawa, to be competed y males and females.

#### NOVEMBER 20, 1919



THE MOLSONS BANK Incorporated in 1855 Capital and Reserve, \$8,800,000 Over 100-Branches

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Write! My book is free postage prepaid. No obligation. A postcard brings th. *Write today*. Prof. JESSE BEERY 4871 (Shin St., Pleasant Hill, Ohio

## THE FARMER'S ADVOCATE.

English Live-Stock Prices.

The fine price of 720 guineas was paid at a Hereford cattle sale, at Glasburyon-Wye, for the six-year-old "Whiteface" cow, Oyster Gipsy, one of the noted Hampton Court blood belonging to W. H. Jones, Llanthomas, Llanegon, Hay, Hereford. The Oyster family has bred more winners than any other modern blood line.

Two herds of 87 non-pedigree dairy Shorthorns, owned by Arthur Hiscock, Motcombe, Dorset, have been sold for \$4,635 15s., or an average of \$53 5s. 8d. apiece: One cow made \$100 (top price) and others fetched \$73 to \$64. Dairy cows of Shorthorn ancestry, and not in the Herd Book, are everywhere realizing \$80 down to \$56 in our English weekly commercial markets.

Michaelmas Sheep Fairs are an institution in England. Prices for wellbred rams of nearly every breed remain very high and breeding ewes are still costly to buy. C. B. Warner sent 22 Lincoln shearling rams to Malton Fair, and they realized £335 8s. 6d., the highest price being 36 guineas. J. Cranswick received 35 guineas for one, and realized £528 4s. for 24 head. Major Behren's 20 Lincoln rams made £213 13s. 6d.

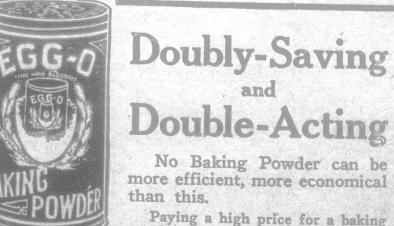
Leicester rams sent by J. F. Thompson to Hull Fair made up to 20 guineas; Mr. Nightingale got 19 guineas, and T. C. Jackson, 11 guineas. W. F. Woods', Kent, rams realized 41 guineas to 7 guineas, and averaged 413 4s. 4d., at Sittingbourne Fair. Ashley Stevens' 38 rams sold at 44 guineas to 8 guineas, and averaged £13 2s. 6d.; Lord Harris' 14 averaged £8 15s. 6d., and W. F. Clark's, £6 6s. 9d.

The noted flock of Border Leicester sheep, the property of Messrs. Foulder, Oakbank, has been sold for high prices: 81 rams made £55 each; four-crop ewes, £12 13s. each; three-crop ewes, £18 4s. 9d. apiece; two-crop ewes, £19 9s. each; and one-crop ewes, £20 18s. 6d., a ewe of this last-named age fetching £53. For 71 head of Berkshire bigs, sold at

For 71 head of Berkshire pigs, sold at Suddon, Wincanton, Julius Fricker averaged £29 5s. 10d. apiece, or a total of £2,067 11s. Some 20 old pigs averaged £60 12s., and 51 of this year's crop averaged £17 apiece.

Working, farm, in-foal, Shire-bred mares have fallen in price in some North country marts, where they were very high in 1917-18. Last week they realized 96 and 86 guineas in Preston. Yearling Shire colts are also cheaper in Yorkshire, and realized 50 guineas down to 39 guineas at York, where Clydesdale fillies, two years old, realized 70 guineas.

Three Friesian cows in England have topped 2,000 gallons a year, and yards of tripe have been written in the daily papers about it. It has started Jersey, Guernsey, Shorthorn and Dexter cattle stuntists on the job of boosting. Every one of them is trotting out his recordbreakers, but the claims of the Guernsey cattle bred in England do merit recognition. It must be recollected that the



Paying a high price for a baking powder does not guarantee you the best. High prices are sometimes charged for the impression they make. 2107



is doubly saving because it is sold at a fair price, and its double action—in the bowl and the oven—makes it a never-failing leavener.

Buying Egg-O in the larger sized tins is most economical for family use.

Always follow the directions-one level teaspoonful to one level cup of well sifted flour.

The Egg-O Baking Powder Co., Limited Hamilton, Canada



y males and females, in 1919 for the Grand

n, of Brooklin, writes: od trade for my Shrop n imported and lambs g. All of the imported cept two of the best r use upon the splendid wes which I am now These ewes are an bred, typical lot of are the right kind for o add fresh blood to the foundation of new glad to hear from anya start in the sheep uote close prices. Any e in-lamb ewes should ir own flock header for

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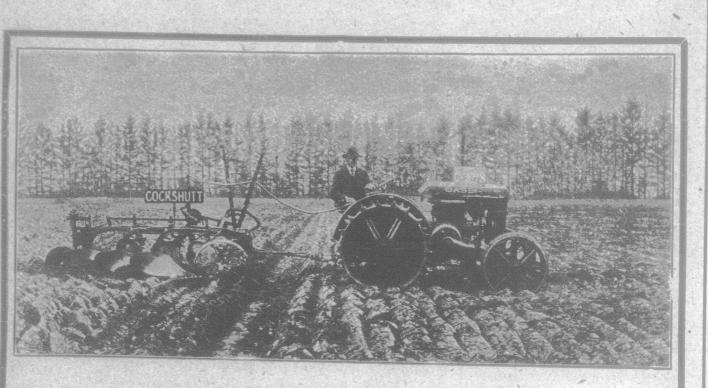
and the second More Light Than 20 Oil Lamps AT LAST — the light of lights — A beautiful lamp that lights with common matches just like oil lamp, but makes and burns its own gas from com-mon gasoline, giving a brilliant, steady, rest-ful, white light of 300 candle power. Most Brilliant Light Made Brighter than the brightest electricity. More fight than 20 of lamps. Cheapest and best light made. Costs less than one-third of a cent per hour. Safer than the safest of lamp. The <u>(Oleman</u> allilli Quick-Lite Lights With p Match, No wicks to trim no globes to wash. No dirt, no grease, no glare or flicker. Absolutely safe. Fuel can't spill no danger even if tipped over. Guaranteed 300 if tipped over. Guaranteed 5 years will last a lifetime. If your dealer can't supply, ad-dress nearest office for Catalog No. 10 Candle Power, Rochester Lamp Co.,Ltd. 120 Church St., Toronto When writing advertisers please mention Advocate

nition. It must be recollected that the English dairy farmer is only just finding out which is the profit-yielding end of his cow. ALBION.

The Canadian Shorthorn Annual.

The Canadian Shorthorn Annual, which was issued some time ago, is an exceptionally well-prepared and interesting volume containing one hundred pages. It contains a list of the officers and directors of the Dominion Shorthorn Breeders' Association, the minutes of the last annual meeting, the financial statement, rules for registering animals, the standard for registration in the Canadian Record of Performance, and the names of cows and bulls which have qualified in the R. O. P. It also gives the names of winning Shorthorns at the larger exhibitions held last year throughout the Dominion. The front part of the book is exceptionally well illustrated with Shorthorn animals of outstanding merit. There are a number of timely articles, showing the expansion of the Shorthorn breed and the adaptability of the breed to Canadian conditions. An article on fitting show steers, by J. H. Skinner, Purdue University, is exceptionally well written and contains much practical information. This Annual might well be in the hands of everyone interested in Shorthorn cattle.

When writing advertisers will you kindly mention The Farmer's Advocate.



## COCKSHUTT "VICTORY" PLOW

At the International Plowing Match held recently at Chatham, Mr. J.B. Cooperthwaite, of Agincourt, won FIRST PRIZE in the Tractor Plowing Competition with his Cockshutt 3-Furrow "VICTORY" Plow. In that contest were 27 Tractor outfits-with 19 of them pulling Cockshutt Plows. Experienced plowmen and tractor operators everywhere realize that for best results with any make of Tractor and under all kinds of plowing conditions, the COCKSHUTT is the Plow to use.

## You Can Get the Same Results

The Cockshutt "Victory" Plow is built in 2-Furrow and 3-Furrow sizes and with 10", 12" or 14" bottoms. Get the size' best suited to your tractor and your land. Always remember it's the Plow that actually does the work-the Tractor is but the motive power. The Cockshutt will hitch behind any make of Tractor.

Automatic Power Lift raises and lowers the bottoms. Operator sits on his Tractor and simply pulls a cord. Extra clearance provided between beams for working dirty land. Every part has surplus strength. Design of moldboards and shares is the result of long experience. They will give YOU the same splendid service they are giving others.

See our nearest Agent or write us for further particulars. Farm Implements and Machines for Every Farm Need.

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**Questions and Answers**. Miscellaneous.

#### Cars and Tractors.

Where are following cars built Reo, Oldsmobile and Gray Dort? Have they warehouses in Canada? 2. Where could I get a good book on running cars and tractors? D. A.

Ans.—1. The Reo is manufactured at Lansing, Mich.; the Oldsmobile, by the General Motors, Oshawa, and the Gray Dort, at Chatham, Ont. All three have agencies in the larger centres of the

Province. 2. "Gas Engine Troubles and In-stallation," which can be secured through this office for \$1.00, gives valuable in-formation about all parts of a gasoline motor, regarding causes of various troubles and adjustments for the same. We are not familiar with a good book on the running of cars or tractors.

#### Toad Flax.

What is the name of the enclosed weed? Would you advise patting the bald in corn next year? D.W. field in corn next year?

Ans .--- The weed submitted to this office Ahs.—The weed should be this once is a sample of toad flax, Linaria vulgaris. This weed is spreading quite rapidly in Eastern Canada, especially on light, shallow soil. Being a perennial and deep-rooted, it is a rather persistent weed A short rotation of crops with deep thorough cultivation in spring and fall is recommended for the control of this weed. It is doubtful if you will be able to completely eradicate the weed with the corn crop next year. Plowing early in the fall and giving a partial summer-fallow during the fall months, and then planting to a hoed crop, is a method which has proven successful in cleaning out this word out this weed.

#### Hens Dying.

I have had several hens die this fall. They would gradually become thinner and weaker and with some one eye was partly closed. Some died with what appeared to be throat trouble; there was a swelling around the neck. What was the cause of the sickness? A.S.

Ans .--- The birds becoming thinner and weaker would indicate tuberculosis. Other well-marked symptoms, however, would be a lameness and an anaemic appearance about the head. The swelling of the head and closing of the eyes are symptoms of roup. The diseased birds should be isolated from the healthy ones and the heads bathed in a weak solution of commercial roup cure. The nostrils might be sprayed with oil of eucalyptus. Tumors sometimes appear and should be lanced and afterwards touched with a five per cent. solution of carbolic acid prevent roup getting into the flock, keep the pen clean and the birds well nourished and out of drafts. Exclude from the poultry house anyone coming in contact with infected birds. The throat trouble may have been due to roup.

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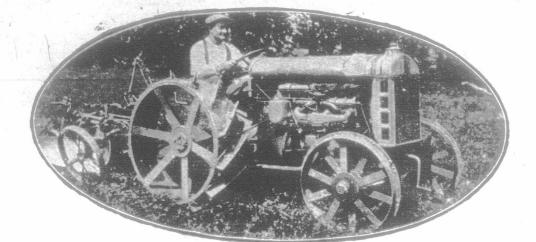
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Frost & Wood Co. Sold in Eastern Ortario, Quebec and Maritime Limited SMITHS FALLS, ONTARIO Provinces Montreal, St. John, N.B.



Hon E. C. Drury, Ontario's Victorious Premier, operates a Cockshutt Victory Plow on his farm at Barrie.

#### Veterinary.

#### Skin Trouble.

I have a pure-bred Berkshire sow that, when her litter is about 4 weeks old takes skin trouble. Scales form over head and back. It is very itchy and the young pigs take it. There is no matter under the scales, but it retards their growth for S. A. R. about six weeks.

Ans.—Some pigs are more subject to troubles of this nature than other breeds. All that can be done as a preventive is to keep the sow in only moderate condition, and see that she gets plenty of exercise during pregnency. Feed on easily digested laxative food. Thoroughly disinfect the premises in which she is to farrow and nurse her litter and keep thoroughly clean in every way. Make a mixture of 1 part carbolic acid to 50 parts sweet oil or raw linseed oil and rub her well with it every third day for a week or two before the time the trouble usually appears, and daily if symptoms indicate that it is appearing; also rub the young as scon as symptoms appear in the dam. Feed her as soon as she farrows a tablespoonful 3 times daily of equal parts Epsom salts, sulphur and powdered charcoal. In cold weather supply her with all the soil and wood ashes she will consume, also a reasonable supply of raw roots.

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#### NOVEMBER 20, 1919

The Trapper. POSSIBILITIES AND PRELIMINARIES. It is almost needless to enumerate here the possibilities in trapping furbearing animals. Millions of dollars worth of furs are yearly taken in Canada, and strange as it may seem, the most of the Canadian furs are trapped by the farmer and his sons. Some may be more favorably located than others, but they are very few, if any, communities where a person cannot make a good thing during winter as a side line, devoting his spare time to the very profitable industry of trapping. I can easily call to mind many farmers or farmers' sons who make anywhere from a hundred dollars up each season, depending on their locality and the amount of time devoted

Again, any one who is fortunate enough to have swamp land can turn it from land of no value into the best paying land on the farm, with only a fractional part of the outlay that would be yearly necessary on ordinary land. The method of doing this is to fence off the swamp with a strong wire fence of about two-inch mesh, and "grow" muskrats. After the land is fenced you would not want to trap any rats for about two years, and you would then be able to begin operayou would then be able to begin opera-tions, increasing the number you catch each season. Of course, if it is a large swamp, it would not even be necessary to fence it. The idea is this. Muskrats are very prolific, and one pair would on an average easily rear fifteen a year, so you can readily understand how fast this would count up if left to increase you can readily understand now last this would count up if left to increase for a year or two. In the United States, in the south, a somewhat similar method is used, and thousands of dollars are taken in annually. No fences are here used, but the limits that are rented to used, but the limits that are rented to each one are staked off, and one trapper does not trespass on the other's land. In a fairly large swamp, of course, no fencing would be necessary. Muskrats however, must have water, and if the streams or ponds in the swamp froze to the bottom in the winter, it would have to have them dug deeper so that the water would not freeze solid, as muskrats must have water.

Two things ought to be taken into consideration by the trapper, and these only. Never trap unprime furs, and use methods and devices to put the animals out of their misery in the least possible time. As a means to this latter end, look at your traps each and every morning regularly, as soon after dayl ght comes as possible: Most fur-bearers are nocturnal, in part at least, and in daylight they are nervous and afraid. Therefore, when they are captured and when daylight comes, they work harder than ever, if they are alive, to secure freedom, and by looking at the traps regularly and early every morning, you not only decrease their suffering, but you also then run fewer chanc having them get away by securing their freedom at the price of amputating or pulling off their imprisoned limb You see it pays to be humane, and I have yet to know of any one who ever gained anything by causing an animal unnecessary cruelty. Another method is to use, whenever possible, one of the types of traps that instantly kill the animals. By these I refer to the "Kill-um" and "tree" traps. The former are for musk-rat shunk and the size has a for muskrat, skunk and all animals having burrows They are made of heavy wire and placed over the mouth of the burrow. When an animal attempts to enter or emerge it touches the trigger, and the two "circles" of wire go in opposite directions and almost instantly choke the animal to death. For mink, marten, muskrat, etc. use size No. 1 of this trap: for skunk. etc., use size No. 1 of this trap; for skunk, coon, etc., use size No. 2. The tree trap fastens to a tree by means of nails, and was originated for such climbing animals as coon, etc., and when fastened to the trunk of the tree is used for weasel, mink, marten, etc. The bait is fastened to the trigger, and when the animal touches bait, the jaw comes down over touches bait, the jaw comes down over its head and holds it fast, killing it very quickly. For weasel use size No. 0, mink, etc., size No. 1, marten, etc., size No. 2, raecoon, etc., size No. 3. Of course, these traps can be used only at certain sets, as stated, but you can at least use them there. By doing this you are following along humane lines, and at the same time, when you use these traps there is no possibility of the animal getting away. getting away.

## THE FARMER'S ADVOCATE.

## **Active Christianity** Will Mend the World

THE United National Campaign-represent-I ing the co-operative feature of the simultaneous, but independent, Forward Movements of the Anglican, Baptist, Congregational, Methodist and Presbyterian communions invites all followers of our common Lord and Master to pray earnestly for the peace and well-being of Canada and the world, and for a renewal of the Christian spirit of sacrifice and service.

## **Thirteen National Conventions**

Thirteen National Conventions are about to assemble at the call of the United National Campaign. The dates arranged, and the places of meeting here follow:----

> November 24th and 25th Toronto and Montreal. November 25th and 26th Montreal and Moose Jaw. November 26th and 27th Regina. November 27th and 28th Saskatoon. December 1st and 2nd

Edmonton and St. John. December 2nd and 3rd Calgary, London and Halifax. December 4th and 5th Charlottetown and Vancouver.

## The Objects of the Conventions

1. To give thanks to God for Victory.

- 2. To rouse the Canadian people to a keener sense of their religious privileges and national responsibilities.
- 3 To stimulate the practice of prayer for individual and national needs at this difficult period.
- 4. To re-affirm the principle that the Gospel of Christ is the only cure for those conditions which produced the world war, and the only foundation for ensuring national stability, social welfare and individual happiness in the day of peace.

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#### Veterinary.

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## The Reason for United Action

His Grace, the Archbishop of Canterbury, preached the opening sermon of the Church Congress held at Leicester, England, on October 14th, 1919. On that occasion, he said :---

"We ought to be able to make more of the real oneness, which, thank God, is already ours, the oneness, both in faith and in potential action, of all who can and do kneel to Christ as their living Lord. We want to dwell upon and foster the power of that fellowship for united . . . impact upon the world, or penetration of the world, at an hour so inexpressibly difficult as this. That need not, it will not, interfere with completest loyalty to the distinctive truths, which in our smaller circles within the Church of God we conscien-tiously hold dear."

"The corporate life which belongs definitely to our own Churchmanship claims our whole-hearted allegiance. But that allegiance acquires an element of peril if it becomes so disproportioned as to obliterate or mar our loyalty to the larger whole, the Christian fellowship, the Godguided life and energy of all who profess and call themselves Christians."

10

**The United National Campaign** G. H. Wood - Chairman of the Executive Committee

## Yourself-**Build More Com**fort into the Farm Home

Aren't there a dozen improvements you've been going to make in the home, and which you've put off?

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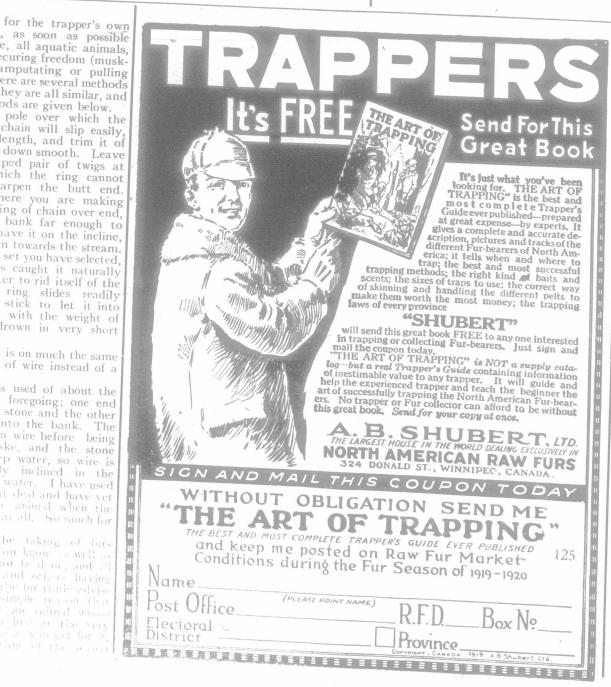




stall. Has new arrangement of carburetor, which makes it leak proof. Consult us about the en-gine you need. Tell us what you intend to use it for, the size of the machinery you want it to turn, and we will gladly advise you proper size and H.P. of engine to get.

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It is primarily for the trapper's own benefit to drown, as soon as possible after their capture, all aquatic animals, to prevent their securing freedom (muskrat, mostly, by amputating or pulling out their feet). There are several methods of doing this, but they are all similar, and the two best methods are given below. Secure a small pole over which the about six feet in length, and trim it of all twigs and limbs down smooth. Leave a crotch or V-shaped pair of twigs at the small end which the ring cannot slip over, and sharpen the butt end. Now take this where you are making your set, slip the ring of chain over end, run butt back in bank far enough to



the animal was caught. At the very least you lose this, mind you, and as a rule more.

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You may say that one unprime pelt is such a small loss. It is, but it is the number of these small losses that count, and yearly thousands and hundreds of thousands of dollars are lost in this manner. The farmer who would cut his grain when it was green simply to get it sold quicker would be a good candidate for the asylum, but it is no more foolish to do this than it is to capture animals whose relts are unprime. In spite of all whose pelts are unprime. In spite of all that amateur trappers are told every season, as requi ar as clockwork, they continue to catch unprime animals. I know of instances where trappers will catch furs, year after year, and not secure one sixth of what they were worth had they waited two months longer, and by trappers who have had experience and are old enough to know better. From all I can make out it shows a lack of judgment and brains. They always have and always will persist in killing the goose that have the that lays the golden egg in anything that they undertake to do. You no doubt could name similar specimens and know what I mean. Don't be like them, but rather use your brains and judgment for what they were originally intended, and go at trapping in a businesslike, systematic and humane manner. Remember it can be conducted on a losing scale, or one that will return you much money for the time and labor expended. It all depends on yourself.—R. G. Hodgson.

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have it solid, and have it on the that is, sloping down towards the stream. Set your trap at the set you have selected, and when animal is caught it naturally makes for deep water to rid itself of the trap. The chain ring slides readily enough down the stick to let it into deep water, where, with the weight of the trap, it will drown in very short order.

The other method is on much the same principle, but made of wire instead of a pole or limb.

A piece of wire is used of about the same length as the foregoing; one end is fastened to a flat stone and the other to a stake driven into the bank. The trap ring is placed on wire before being fastened to the stake, and the stone thrown out into deep water, so wire is gradually or steeply inclined in the direction of the deep water. I have used these methods a great deal and have yet to fail to drown the animal when the water was any depth at all. So much for

Questions and Answers. Miscellaneous.

Hereford Herd Book. Where could I obtain Volume 10 of the Canadian Hereford Herd Book? D. J.S. Ans.-Write the Accountant, National

Live Stock Records, Ottawa, or H. D. Smith, Secretary of the Canadian Here-ford Breeders' Association, Ancaster, Ontario,

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#### **NOVEMBER 20, 1919**

## Horse Owners! Use GOMBAULT'S Ustic A Safe, Speedy, and Pesitive Care These est, Best BLISTER ever used. Takes the place of all thaments for mild or severe action. Semoves all Bunches or Blemishes from Horses and Cattle, SUPERSEDES ALL CAUTERY OR THING. Ampossible to produce scar or blemish Twey both sold is warranted to give satisfaction rice 11.75 per both, Sold by druggists, or sent propress, charges paid, with full directions for in use. Send for descriptive circulars. The Lawrence-Williams Co., Toronto, Ont YOU CAN'T GUT OUT A BOG SPAVIN OR THOROUGHPIN but you can clean them off promptly with BSORBINE and you work the horse same time. Does not blister or remove the hair. \$2.50 per bottle, delivered. Will tell you more if you write. Book 4 R free. ABSORBINE, JR., the antiseptic liniment for mankind, reduces Varicose Veins, Ruptured Muscles or Ligamenta, Balarred Glanda, Wena, Cysta. Allays pain quickly. Price \$1.25 a bottle at draggists or delivered. hair. \$2.50 per bottle, delivered. W.F. YOUNG, Inc., 258 Lymans Bldg., Montreal, Can. BOOK ON DOG DISEASES And How to Feed Mailed free to any addices by the America's Author, Pioneer H. Clay Glover Co. Inc. Dog 118 West 31st Street, New York, U.S.A. Remedies If you want fair grading, highest prices and prompt returns, ship your

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## THE FARMER'S ADVOCATE.

#### Trappers! Learn This Table by Heart.

Here, for the guidance of the new trapper, are a few brief notes about the seasons when he is most likely to get prime skins. It must not be taken as law, because the weather conditions in each locality affect the quality of furs considerably on animals. This will, however, serve as a very fair guide.

Skunk: In the northern regions skunk are prime about the last of October and stay so until the middle of March. In the south they are prime toward the last of November and stay so until the middle of March.

Mink: Prime in latter part of November, December and January in the north; in December and January only in the south. At the beginning of February, especially if the winter is mild, they begin shedding in both sections. Muskrat: In the north muskrat skins

Muskrat: In the north muskrat skins are fair in the fall, but not really prime until midwinter. They remain prime until latter part of April or first part of May. From then until June they shed slowly. In the south muskrat trapping should not be continued after April 1.

Otter: In the north they are prime from November 1 to June 1. In the south they are prime shortly after the first of December and stay so until the middle of April.

<sup>1</sup> Fox: Generally speaking fox are prime in the north about 15th of November to the middle of March; in the south from November 30 to February 1.

Raccoon: Northern raccoon are prime November 1; later in the south, according to location. They should not be trapped later than March 30 in the north or February 28 in the south.

February 28 in the south. Opossum: In the north, opossum are prime about November 1 and stay so until March 1. In the south they do not become prime until November 15, and begin to shed several weeks earlier than they do in the north.

#### International Live Stock Show.

Great preparations are under way for the International Live Stock Show to be held in Chicago commencing November 29. The entries of live stock consist of 441 Shorthorns in the breeding class, and 49 in the fat class. There are several entries from Ontario; 141 Milking Shorthorns are entered. The Angus breed will be represented by 244 in the breeding class and 82 in the fat class. There are 381 Herefords in the breeding class and 88 in the fat class. One hundred and ten grades and cross-breds are entered. The heep classes have a large entry. Among the exhibitors from Canada are George Allan, Caledonia; H. M. Lee, Highgate J. H. Patrick & Son, Ilderton; F. B. Gosnell, Highgate; Peter Arkell & Sons, Teeswater; R. Armstrong, Teeswater; Robt. McEwen, London; E. F. Rich, Burford: Larkin Farms, Queenston, and Las Snell Clinton In the breeding Jas. Snell, Clinton. In the breeding classes of swine there are 129 Berkshires, 79 Poland Chinas, 57 Chesters, 192 Durocs, 21 Tamworths, 64 York-shires and 83 Hampshires. The Percherons are 281 strong; Clydesdales, 139; Shires, 88; Belgians, 167; and Suffolks, 50. The entry list indicates that there will be particularly strong competition in every class. Time can profitably be spent in attending this great exposition.



we can pay you more for your furs. Grades Highest, Pays Highest Funsten Bros. & Co. for 38 years have been famous all through Canada and the United States for their high grading. Our experts give you every bit of value in your pelts. All grading done under the supervision of the officers of this firm.

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#### To Discover Parasites of European Corn Borer.

The United States Bureau of Entomology, a branch of the United States Department of Agriculture, has instituted an enquiry into the nature and possibilities of the control of the European Corn Borer by parasites. This work has been begun with a view to the dissemination of parasites in order to combat this destructive pest in America. We were interested to learn that a Canadian, a graduate of the Ontario Agricultural College and Cornell University, William R. Thompson, a native of Middlesex County, Ontario, has been appointed specialist in parasites to take charge of this work. Mr. Thompson will have a laboratory near Tolouse, in the south of France. At present he is completing his course for a doctor's degree in biology at Paris University. The enormous volume of Funsten shipments enables us to do business on a very small profitmargin, hence we can pay you more. That is why more than 560,000 trappers ship to Funsten. Ship while the market is strong; don't delay — the cashiswaitingforyoumow!

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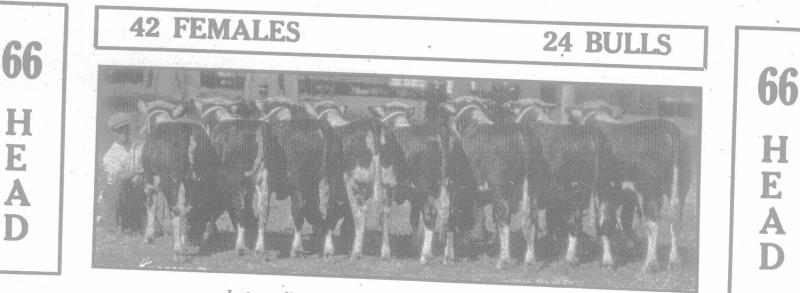
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## Another Day of Attraction Added to Winter Fair Guelph, Ont., Friday, Dec. 12th, 1919 **WHEN** The Ontario Hereford **Breeders'** Association

WILL HOLD THEIR SECOND ANNUAL SALE



Just one line-up of the many good lots in this sale.

These cattle consist of choice individuals from 17 different herds, coming from different parts of Ontario. Many will be shown at Winter Fair, and will again stand on their own merits on sale day.

## CONSIGNORS TO THE ASSOCIATION SALE

John ClarkIona StationWilmont BellStaplesMcNeil & McNeilDuttonO'Neil BrosDenfieldT. O. AitkinsTeeswaterG. E. ReynoldsEloraH. T. PerdueWinghamA. E. NokesManilla
Sons and Daughters of These Great Sires are Featured in This SaleSurprise 958. Spartacus 2nd 2087. Bonnie Brae 61st 14155. Albany 22767. Beau Albany 1215.Brae Real 6th 1903. Peter Fairfax 33592. Donald Lad 26737. Victor Fairfax 24566.Bonnie Brae 3rd 7497. Bonnie Brae 93rd 18302. Alvin Fairfax 78585.The cattle consigned to this sale represent good individuals from some of the most noted herds in ing recommends each animal as a highly-bred individual worthy of your consideration. The bulls for the tent service, and they are just the type needed in good herds. The bulls for the type needed in good herds. The bulls for the tent of the same type, and will appeal to every breeder who appreciates good cattle.J.E. HARRES, Pres.Matter for catalogue now toJ.E. HARRES, Pres.
Auctioneers: Earl Gartin, Greensburg, Ind., U.S.A.; Jas. McDonald, Guelph, Ont.; Wm. S. Taylor, Guelph, Ont.

Sons and Daughters of These Great Sires are Featured in This Sale Surprise 9588. Spartacus 2nd 2087. Bonnie Brae 61st 14155. Albany 22767. Beau Albany 12155. The cattle consigned to this sale represent good individuals from some of the most noted herds in ing recommends each animal as a highly-bred individual worthy of your consideration. The bulls for the most part, are young, just ready to cut into service, and they are just the type needed in good herds. The females are of the same type, and will appeal to every breeder who appreciates good cattle. Write for catalogue now to <b>JAS. PAGE, Secretary, Wallacetown, Ont.</b> Auctioneers: Earl Gartin, Greensburg, Ind., U.S.A.; Jas. McDonald Cueled 60
Auctioneers: Earl Gartin, Greensburg, Ind., U.S.A.; Jas. McDonald, Guelph, Ont.; Wm. S. Taylor, Guelph, Ont.

Fair

#### **NOVEMBER 20, 1919**

#### International Live Stock Show November 29th to December 6th Union Stock Yards, CHICAGO

The Victory Carnival of the Live Stock World. The Criterion of All Stock Shows.

Daily Sales of Pure-bred Stock

Daily Sales of Pure-bred Stock POLLED HEREFORD SALE—Tuesday, Dec. and 1.00 p.m. For catalogue write B. O. Gammon, 24 Valley National Bank Bidg, Des Moines, Ia. ABERDEEN - ANGUS SALE — Wednesday, Dec. 3rd, 1.00 p.m. For particulars write Chas. Gray, Union Stock Yards, Chicago. POLLED SHORTHORN SALE — Thursday, Dec. 4th, 10.00 a.m. For catalogue write J. H. Martz, Greenville, Ohio. SHORTHORN SALE—Thursday, Dec. 4th, 1.00 p.m. For catalogue write F. W. Harding, Uni a Stock Yards, Chicago. HEREFORD SALE—Friday, Dec. 5th, 1.00 p.m. For particulars write R. J. Kinzer, 1,009 Baltimore Ave., Kansas City, Mo. Study intimately the Art of Breeding.

Study intimately the Art of Breeding. Learn to reduce the HIGH COST OF LIVING by economic feeding methods.

The International Hay and Grain Show for Chicago Board of Trade Prizes. The Brilliant Evening Horse Shows and

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Price \$2.50 a bottle. Bold under a positive guarantee since 3896 Your money back if it fails. Write for Fleming's Vest-Pochet Veterinary Advisor 96 pages and illustrated. It is Free, Fleming's Chemical Horn Stop. A small quantity applied when calves are young will prevent growth of Horns A 50c tube sont postpaid is enough for 25 calves.

Angus, Southdowns, Collies

Choice bred heifers. Bulls 8 to 15 months. Southdown ewes in Lamb.

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SUNNY ACRES

**ABERDEEN-ANGUS** 

The present string of young bulls for sale includes some classy herd bull prospects, winners them-selves and sired by champions. If interested in Angus write your wants. Visitors welcome.

P. O. and 'phone Railway connections; Lindsay, C.P.R. and G.T.R.

Aberdeen-Angus

Meadowdale Farm

Forest Ontario.

Oakwood, Ontario

G. C. CHANNON

#### Housing Swine in the Winter.

BY W. C. MCKILLICAN, BRANDON EXPERI-MENTAL FARM.

In providing shelter for swine during the winter months the chief consideration is dryness. Other points such as warmth and ventilation are important and closely related, but the absolute essential is dryness. Buildings heated by the warmth of animals have a great tendency to excessive moisture, because the warmth comes chiefly from the animals' breath which is moisture- laden. An excessively moist atmosphere is detrimental to the health of any animal, but to pigs it is particularly objectionable, as they are more subject to rheumatism and other troubles traceable to dampness.

#### WINTERING IN PIGGERY.

The brevity of this article will prevent any full discussion of piggery construction, but a few essentials may be noted. Cement floors are the best from the standpoint of sanitation and durability, but a pig should never lie on a cement floor. Sleeping platforms should be pro-vided. These may be raised only an inch or two above the cement or may be elevated so that there is a two-story pen with a gangway up to the sleeping quarters. Cement should not be used for piggery walls; it makes a damp build-ing. Wooden walls with plenty of insulation by means of paper and dead air insulation by means of paper and dead air spaces are best. A piggery should have ample sunlight, and the rays should shine on the sleeping quarters, keeping the bedding dry and sweet. The area of glass should not be extreme, however, as that defeats the object, making the building too hard to warm and consequently damp. The ceiling of a piggery should not be too high; a low ceiling allows the place to warm up more readily and facilities ventilation. A good system of ventilation should be installed, or a straw-filled loft with slatted ceiling may take the place of the foul air vents.

WINTERING IN STRAW PILE.

Where straw is plentiful, pigs may be wintered quite successfully in a large pile of straw. A start at a burrow in the straw should be made for them by threshing the pile over a clump of bushes, some home-made trestles, a fence or other obstacle that will make a hollow place in the centre of the pile, and a runway out from it. The pigs will then burrow from this and make their own nests

Where the amount of straw to be not unlimited, the same used is kind of shelter can be made with much less straw. The shelter place should be surrounded by a fence and roofed over with poles. A second fence should surround this at a distance of at least six feet. Straw is then perched in the intervening space and piled over the top. A crooked entry passage at the south side will allow the pigs to come in out without too much direct draft



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Pres. ph, Ont.

Alonzo Matthews H. Fraleigh Manager Proprieter Keep Dirt and Filth Out of the Milk by clipping the cow's flanks and udder every month. Then with a damp cloth wipe the parts off in a hurry. There is no long hair to hold the dirt and the milk is clean and wholesome as it falls into the pail. Clipping all over twice a year is good for the cows. A Stewart No. 1 Machine is best. It will clip horses also. Get one from your dealer or write direct to us. CHICAGO FLEXIBLE SHAFT COMPANY Dupt. A 161, 12th St. and Contral Ave., Chicago, II Commission Men **Pay More** Dealers pay more for cattle that have been dehorned. The hides are worth more and the flesh has less bruises. Write for booklet telling about the Keystone Dehorner. R. H. McKenna, 219 Robert St., Toronto Sunny Side Herefords—Choice bulls and heifer calves, young cows with calves at foot. Reg. Shropshire rams ewe and ewe lambs. Inspection in-vited. All are priced to sell. Archur F. O'Neil & Sons, R.R.No. 2 Denfield, Ont. Kennelworth Farm Angus Bulls—The ever had, all are sired by Victor of Glencairn and a number are ready for service. Prices reasonable. PETER A. Thompson, Hillsburg, Ontaries. Beaver Hill Absordsom-Angus and Oxford Shoop—Bulls from 8 months to 20 months. Females all ages. Shearling rams and ram lambs. Priced for sale ALEX. McKINNEY, R. R. No. 1, Erin, Ont. Balmadia Absordsom Angus Sunny Side Herefords-Choice bulls Balmedie Aberdeen-Angus Nine extra good young bulls for sale. Also females all ages. Show-ring quality. THOS. B. BROADFOOT - FERGUS, ONT. Brood sows wintered in out to winter better than in the most elaborate piggery.

entering the pen.

#### WINTERING IN CABINS.

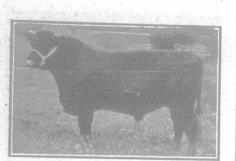
Pigs can be wintered quite comfort-ably in the ordinary cabins used for providing shelter on pasture in summer. Where the location is well drained, and where the location is well drained, and the climate dry, these cabins are better without floors. The pigs work the soil into a fine dust which makes an excellent warm bed. Floors up a distance from the ground have a cold draft under them, and are likely to be wet from the pigs' urine unless bedding is changed frequent-ly. However, on level locations and in wet climates, where the earth would be wet climates, where the earth would be muddy, it is necessary to put in a wooden floor. Where this is done, the cabin should be well banked with earth or manure, so that the cold air cannot blow under the floor, and dry bedding given whenever needed. The ordinary A-shaped cabin is found very satisfactory of Brandon and is cheaply and quickly snaped cabin is found very satisfactory at Brandon, and is cheaply and quickly made. A cabin with straight walls and shingled roof is more durable, but considerably more expensive. Two or more of these cabins may be placed in a row, and the space between filled with straw. Straw should be piled against the sides of the end cabins. It is advisable to keep the pigs away from this straw, or they will tramp it down and carry it into the cabins. An odd length of woven fencing is quite suitable for this purpose.

Brood sows wintered in such shelters as above described, are found to winter



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The Salem Herd of Scotch Shorthorns



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**KELMSCOTT ACROBAT 4** Bred and Owned by R. W. Hobbs & Sons, Champion Milking Shorthorn Bull at the Royal Show, Manchester, 1916.

The Kelmscott Herd of PEDIGREE MILKING Shorthorns, Flock of Oxford Down Sheep and **Stud of Shire Horses** THE PROPERTY OF

Robert W. Hobbs & Sons Kelmscott, Lechlade, Gloucestershire, England

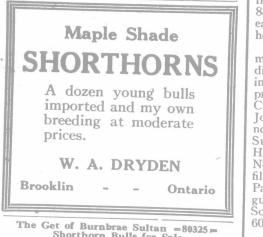
#### SHORTHORN CATTLE

SHORTHORN CATTLE One of the oldest and largest pedigree herds in existence. Milk, Flesh and Constitution studied. Daily milk records kept. Numerous prizes won for inspection, milking trials and in butter tests. The Gold Medal, Spencer and Shirley Challenge Cups were won at the London Dairy Show in 1914. The Fifty-Guinea Challenge Cup for the best group of dairy Shorthorns at the Royal Show was won for the third successive year at the last exhibition at Manchester in 1916, also two firsts, one second and one third prize. All cows in milk, and the stock bulls have passed the tuberculin test. Bulls and bull calves on sale at prices to suit all buyers.

#### **OXFORD DOWN SHEEP**

The flock was established in 1868, and consists of from 1,000 and 1,250 registered Oxfords. Numerous prizes for many years have been won at the principal shows. At the last Royal Show first prize was taken for a single Ram Lamb and first prize for pen of Ram Lambs. Rams, Ram Lambs and Ewes always on sale.

R. W. Hobbs & Sons are breeders of high-class Shires. Solved active colts and fillies always on sale. TELEGRAM HOBBS, LECHLADE Inspection Cordially Invited



Shorthorn Bulls for Sale

They have to take exercise in coming out for food, and their quarters are always dry. They will produce larger and stronger litters than are possible from sows wintered in limited quarters, no matter how comfortable the latter may seem to be.

#### **English Pedigree Stock** News.

The value of the pedigree live stock exported from England during September was £52,908, which brings the current year's aggregate up to £2,013,388, or 67 per cent. more than the figures of 1918 at the same period. So far as the year has gone, 4,280 cattle, worth \$468,766 have been sent abroad, Argentina being the keenest buyer of some 788 head, reputed (according to the official returns) to be worth £220 16s. 7d. apiece. Some of the cattle, of course, are worth many thousand pounds each. The United States has taken 714 head, which are officially recorded as worth £57 each so much nonsense, if one speaks to the American buyers operating over here and finds out what they are really paying for good class breeding stock.

During September, Argentine buyers took away from England 284 sheep worth 436 1s. each, and the United States of America 454 head at £14 4s. 3d. apiece, e., according to the official returns All told this year we have exported 4,947 sheep, worth £110,839, or a general average of £22 8s. Uruguay is buying average of ±22 8s. Uruguay is buying many sheep for her ranches and she has secured so far this year 304 head worth £51 0s. 11d. each. The full Argentine total is 1,394 head, worth £38 9s. apiece, and that of America is 1,007 head at £13 19s. 9d. each; while Canada's pur-chases have been 631 head worth £12 chases have been 631 head, worth £13 6s. 3d. each.

Pig exports have brightened considerably since the autumn. Some 372 head were shipped abroad in September, head were shipped abroad in September, at an average value of £15 19s. 5d. each. So far this year 698 pedigree pigs have been sent away, worth £11,651, or an average of £16 13s. each. Argentine is buying again, and she has taken twenty-three, of the value of £40 7s. each.

During the year we have exported from England 2,457 horses, worth £402,-884, or an average value of £163 19s. 5d. each. We have, however, imported 1,884 head, worth £164,326 or £87 6s. each.

Suffolk horses-or rather mares- are Suffolk horses—or rather mares— are making big money in England. At the dispersion of the Erwarton Stud, belong-ing to W. H. Allen, Harkstead, top price filly foal made 600 gs. to W. P. Cullen, Cressing, Temple, Braintree. Joseph Watson, Sudbourne, who has now one of the finest collections of Suffolks, bought a mare for 1,050 guineas. Her foal made 360 guineas. S. W. A. Her foal made 360 guineas. S. W. A. Noble, Wretham, bought six mares and fillies at an average of £418 5s. H. W. Packard purchased one filly foal at 520 guineas, and H. W. Daking, Thorpe-le-Soken, bought a two-year-old filly for 600 guineas.

The export trade in Hackney horses





simple in construction, which makes its operation very simple-it runs whenever you want it to run.

The ALPHA has no electric batteries, no spark coil." It starts and operates on the magneto, which is so simple and well made that it is guar-

anteed to last as long as the engine. All other parts of the ALPHA are equally simple in design and superior in workmanship.

That is why the ALPHA has the reputation of being the best engine buy on the Canadian market.

If you don't know who handles the ALPHA in your vicinity, write nearest sales headquarters for his name.



A number of good young bulls and a few extra good heifers for sale. You should see them

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NOVEMBER 20, 1919

Wayne De Kol.

**RAYMONDALE FARM** 

D. B. TRACY,

Vaudreuil, Que.

SOLD THE FARM

**Pure-Bred** 

The entire Verstella Herd selling without reserve at the farm near ST. THOMAS, ONT.

Tuesday, December 2nd, 1919

This Sale also includes Horses, Hogs, Seed Grains, Field Roots, Alfalfa Hay, Farm Implements, Household Furniture and everything that goes with a 200 acre farm.

General Sale, 10 a.m.; Cattle Sale, 1 o'clock p.m.

up to 25.50 lbs. of butter in 7 days. A sister to this sire sold recently in the Chicago Sale for \$7,500; 3 daughters of Flora's Sarcastic Lad with average records of 25.61 lbs. of butter in 7 days and one of which has given 102 lbs. of milk in one day; 12 sons and daughters of Pontiac Korndyke Plus, a brother to May Echo Sylvia; 10 daughters of Lakeview King Inka De Kol, bred to start freshening shortly after sale date, and 6 daughters of Sarcastic

Every Animal Except Present Herd Sire Bred On The Farm.

Raymondale Holstein-Friesians

A herd sire of our breeding will improve your herd. We have sons of our present sire, Pontiac Korndyke of Het Loo (sire of \$12,750 Het Loo Pieterje), and also sons of our former sire, Avondale Pontiac Echo. Several of these are of serviceable age, and all are from good record dams. Quality considered, our prices are lower than anywhere else on the continent. These youngsters should not remain long. Write to-day.

Hamilton House Holstein Herd Sires

Our highest record bull for sale at present is a 4 months calf from Lulu Darkness 30.33 lbs. and sired by a son of Lulu Keyes 36.56 lbs. His two nearest dams therefore average 33.44 lbs. and both have over 100 lbs. of milk per day. We have several older bulls by the same sire and from two and three-year-old heifers with records up to 27.24 lbs. All are priced to sell.

Hamilton House,

Cedar Dale Farm The Home of Lakeview Johanna Lestrange, the \$15,000 sire-chief sire in service. We are offering a few females bred to him and also have a few bull calves sired by him, at right prices. Other older bulls, sired by our former herd sire, Prince Segis Walker, son of King Segis Walker. A. J. TAMBLYN, Cedar Dale Holsteins (C. N. R. station one mile) Orono, Ontario

**CLOVERLEA FARM HOLSTEIN FRIESIANS** 

Our present offering consists of two choice young bulls ready for service. Priced right for quick sale. Write GRIESBACH BROS., Collingwood, Ont. R.R. No. 1

PIONEER FARM HOLSTEINS My present sales' list includes only bull calves born after Jan. 1st, 1919. These are priced right.

A. E. HULET

DAVID CAUGHELL, Owner,

For catalogues address:

D. RAYMOND, Owner

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Queen's Hotel, Montreal

COBOURG, ONT.

Included in this sale are--11 daughters of Sir Colantha Wayne with records

#### THE FARMER'S ADVOCATE.

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#### **'HORNS** reeding Females

The majority are sired lly as the get of any other also spare some breeding Scotland, Ontario



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man, Ontario RTHORNS You should see them

Questions and Answers. Miscellaneous.

WALBURN RIVERS & SONS

R.R. No. 2, Ingersoll, Ontario Important !! 30-lb. Herd Sire for Sale—Gipsy Pontiac Cornucopia, No. 32700 granddaughter of Sir Waldorf De Kol, and his sire is May Sylvia Pontiac Cornucopia. The latter bull, it will be remembered, is from a daughter of the great May Echo Sylvia, and got oy the 44-lb. bull, Spring Farm Pontiac Cornucopia. Come and see his calves. We also have several of his sons for sale. JOSEPH PEEL, Port Perry, Ontario.

Drainage. 1. I have a well drilled 100 feet deep.

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The Home of 20,000-lb. Cows Write us about our herd of 20,000-lb. R.O.P. p.oducers. Every one is a choice indi-vidual—the breeding is choice, and they are rearing their offspring under choice, but normal conditions. We have young bulls for sale. VISITORS WELCOME. R. J. GRAHAM, Montrose House Farms ... BELLEVILLE, ONTARIO Hospital for Insane, Hamilton Yes, all bulls of serviceable age are sold, but several of six months and younger, from one of the best sons of King Segis Alcartra Spofford, and our best dams will be sold at reasonable prices. APPLY TO SUPERINTENDENT Manor Farm Holstein-Friesians

Holstein - Friesian

St. Thomas, Ont.

R. R. No. 8

Montrose

If it's a herd sire you want, write me. I have sons of both my senior and junior sires, King Segis Pontiac Posch and King Korndyke Sadie Keyes. All from good record dams. Choice bull calves at present to offer—average for two nearest dams, up to 34.71 lbs. butter to seven days. Correspondence solicited. Visitors welcome.

GORDON S. GOODERHAM, Clarkson, Ont. Farm on Toronto and Hamilton, Highway Stations: Clarkson and Oakville.

Holstein Bulls "A few ready for service, one from a 32.7-lb. dam. He has a 33.94-lb. maternal sister. Baby bulls by "Ormsby Jane Burke" and "Ormsby Jane Hengerveld King," grandsons of the 46-lb cow, "Ormsby Jane Segis Aaggie," the only twice 40-lb. cow of the breed. Also females. R. M. HOLTBY, R. R. 4, Port Perry, Ont.

### K, ONTARIO

erd Sire Marquia Suerne—by Gainford Mar-ls (imp.). We have at our herd sire and from a few females.

ride =96365 =. Present herd headers. One im-Sea Gem's Pride and particulars.

1, Drumbo, Ont.

tor 106224, whose two pounds of milk in a on of herd solicited. vocate, London, Ont.

rns, Yorkshires, Herd Northbrook by Ascott ows and heifers in calf. n C. P. R. Millbrook,

t young bulls that he good ages and beaut-others in calf to Rose-Scotch breeding. The

CRIFICE one shearling. Prices JS ONT., Brooklin,

FORD SHEEP lipse and Trout Creek

P. M. M. C. R.

#### VOLDS

ion. I also have four culars. I.P., Columbus, Ont

#### Value of Silage.

What is the value of 13 feet of silage A. S.

Ans .- The dimensions of the silo are not given, consequently it is impossible to figure out the number of tons in 13 feet of silage. Silage has been figured at between \$4 and \$5 per ton. A cubic foot of silage will weigh approximately 30 lbs.

#### White Wash Receipe.

I am planning on whitewashing our horse and cow stables this fall. I am told that if glue and salt are mixed with the lime it will not come off on one's clothes. Could you give me a receipe for preparing and mixing this white-E. F. A. wash.

Ans.—The following is a receipe for whitewash which has proven satis-factory: Slake a half bushel of lime and strain it through a fine sieve, then add a peck of salt, previously dissolved in warm water; three pounds of ground rice boiled to a thin paste and stirred in boiling hot; one-half pound of powdered Spanish whiting, and a pound of glue that has been dissolved over a slow fire. Add five gallons of hot water to the mixture. This material should stand for a few days before using, and gives best results if applied hot. The wash is suitable for either inside or outside work. It may be applied with a spray pump.

"PREMIER HOLSTEIN BULLS—Ready For Service.
 I have several young bulls from dams with 7-day records up to 32.66 lbs. of butter, 755.9 lbs. of milk, with 110 lbs. of milk in one day—over 3,000 lbs. in 30 days. All are sired by present herd sire which is a brother to May Echo Sylvia. Step lively if you want these calves.
 H. H. BAILEY, Oak Park Farm, PARIS, ONT.

#### **CHOICE HOLSTEIN FEMALES!!**

I could spare ten or twelve two and three-year heifers, daughters of Baron Colantha Fayne and Louis Prilly Rouble Hartog. All are bred to freshen early to our 34 lb. sire. Also have a few young bulls, one from a 29.95 lb. cow that has milked 105 lbs. per day Don't delay, this offering is priced right. T. W. MCQUEEN, Tillsonburg, Ont. priced right.

## **4 HOLSTEIN BULLS FOR SALE**

from 2 to 7 months old. 2 grandsons of the 26,000 lb. cow. 2 great grandsons one from a 23 lb. jr. 4 years old. All sired by Hillcrest Rauwerd Vale whose two nearest dams average almost 30 lbs, of butter in 7 days and almost 26,000 lbs. milk in 12 months. Cheap, considering quality. W. FRED FALLIS, MILLBROOK, ONTARIO.

6 BULLS BY KING SEGIS PONTIAC DUPLICATE Brother to the \$50,000 bull. Three of these are ready for service and all are show calves. Write us also for females. We are pricing a number of heifers, bred to our own herd sire, Sylvius Walker Ray-mondale, a grandson of the great May Echo Sylvia. We now have bull calves a few months old by this sire. Let us know your wants. R. W. WALKER & SONS, Manchester Station, G. T. R. Port Perry, Ont. R. R. No. 4.

## **Evergreen Stock Farm Registered Holsteins**

Our Motto: Choice individuals—the profitable producing kind. Nothing for sale now, but get in line early for your next herd sire. (Oxford Co., G.T.R.)

SPRINGBANK R.O.P. AYRSHIRES Our Ayrshires win in the show ring and they fill the pail. We hold more present R.O.P. Champion records than any other herd in Canada. Young bulls and females by present herd sire Netherton King Theodore (Imp.). A. S. TURNER & SON, - (Railway Station Hamilton) - RYCKMAN'S CORNERS, ONT

A. S. TURNER & SON, I (Rainway Station) Silver Stream Holsteins from R. O. P. tested dams. Individually as good as their breeding. Write at once for particulars and price, or better, come and see them. JACOB MOGK & SON, R. R. 1, Tavistock, Ont.

drains on my farm?

2. What makes my Ford so hard to crank? I have great difficulty in starting G. M. it on the magneto.

Ans .--- 1. It would be a very unsatisfactory outlet.

2. It is not uncommon for cars to crank hard when the weather gets cold. It is possible that the magneto needs cleaning.

Black Oats-Ch!mney Sweating.

1. Where can I obtain main black oats?

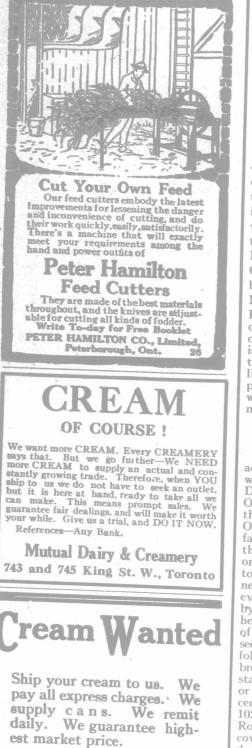
2. What will remove the waxy deposit from the inside of a chimney? This deposit settles on the sides of the chimney and seems to cause the pipes to smoke? W. B.

Ans. 1. These oats may possibly be secured from some of the seed houses advertising in our columns. We do not know of any farmer having these oats on hand.

2. We do not know of any material that will successfully remove this deposit. If any of our subscribers have been successful in removing it, we would be pleased to hear from them, This deposit is frequently the result of improper draft, or of the chimney being cold and causing dampness. Having an opening in the pipe just above the stove has overcome the trouble from the chimney sweating.

#### Gossip. C. E. Wood, whose advertisement of

Leicesters appears in another column



**Ontario Creameries** 

ONTARIO

LIMITED

FEEDERS

Let us place your name on our mailing list for

LONDON

2116

of this issue, has both ewe and ram lambs for sale from his winning ram on the 1917 show circuit. Mr. Wood aims at securing good wool and size, as well as quality. The National Federation of Cooperative Live Stock Shippers is being

organized for the benefit of shippers throughout the United States. A meeting to perfect the permanent organization will be held on December 3 and 4, on the third floor of the Live Stock Record Building, Union Stock Yards, Chicago. On the first day addresses will be given by such men as Wallace, McKerrow, Myers, Curtis, Coverdale, Danforth, and Hister, the meeting on the second day will be devoted to the adoption of the constitution and by-laws. The work is this regard that is being done across the line might be of benefit to Canadian line stock breaders. live stock breeders. Undoubtedly, many pointers regarding such an organization will be obtained by attendance at this meeting.

Caughell's Holsteins Dec. 2. One of the most important sales advertised in these columns this season, was announced last week over the name of David Caughell, R. R. 8, St. Thomas, Ont. Mr. Caughell, probably one of the best farmers and breeders in Western Ontario, has sold his two-hundred-acre farm, and his herd which comes before the public on December 2nd, furfishes one of the best opportunities for breeders to strengthen their herds and new beginners to lay in foundation stock that was ever offered in Ontario. As seen rece tly by a representative of this paper, the herd shows every evidence of being one of the best commercial herds we have seen come on the market in years. The following is a few of the more noticeable breeding cows, and in nearly every in-stance, each one of those listed, has two or more daughters selling. Molly Mer-cedes is a 21,000-lb. R. O. P. cow, with 102 lbs. of milk for her highest day. Rosa Dorliska a fine, big, eight-year-old cow has 24.75 lbs. of butter in seven days, while Susie Dorliska, a full sister, has 24.32 lbs. Betsy Colantha, probably the largest cow in the herd, has 25.50 lbs., and Daisy Colantha, her full sister, although never tested, is now a four-yearold and looks to be one of the best offerings in the sale. There are a half dozen or more good record cows listed, and as every female offered has been bred on the farm, they are, of course, of much the same breeding as those mentioned above. There will be a number of the breeding cows fresh by sale time, and the majority of the others, including the two

**SYDNEY BASIC SLAG** 

## **Unquestionably The Best** Fertilizer For Pastures

In "Canadian Countryman", August, 9, 1919, appears an article "Care of Pastures" by B. C. Tillet. Mr. Tillet says in part:-

"It is no easy matter once a pasture has been overfed to bring it back to its former rich condition. Artificial fertilizers are very useful in a case of this sort but the right kind must be used or it will be a waste of time. The kind to use is Basic Slag and it should be used at the rate of four or five hundred pounds per acre. Where the land has been in pasture a long time two tons of ground lime stone will also be highly beneficial. Acid Phosphate may be used instead of Basic Slag if the soil is exceptionally rich in lime and should be applied at the same rate as the Slag. Generally Basic Slag is preferable.'

Many Ontario farmers know from experience that Sydney Basic Slag produces wonderful results when applied to pastures, but there are many localities where it has never been introduced and we are anxious that you should learn what it will do for you. We would appreciate hearing from reliable farmers in such localities who would be interested in knowing what Sydney Basic Slag will do for them. We believe that our proposition will appeal to them. May we send you further particulars?

## THE CROSS FERTILIZER CO. LIMITED Sydney Nova Scotia Address inquiries to our General Sales Agent, A. L. SMITH, 220 Alfred Street, KINGSTON, ONT.

**Prospect Farm Jerseys** 

FOUNDED 1866

If you Firs ages. Lead almost at Calg don, R

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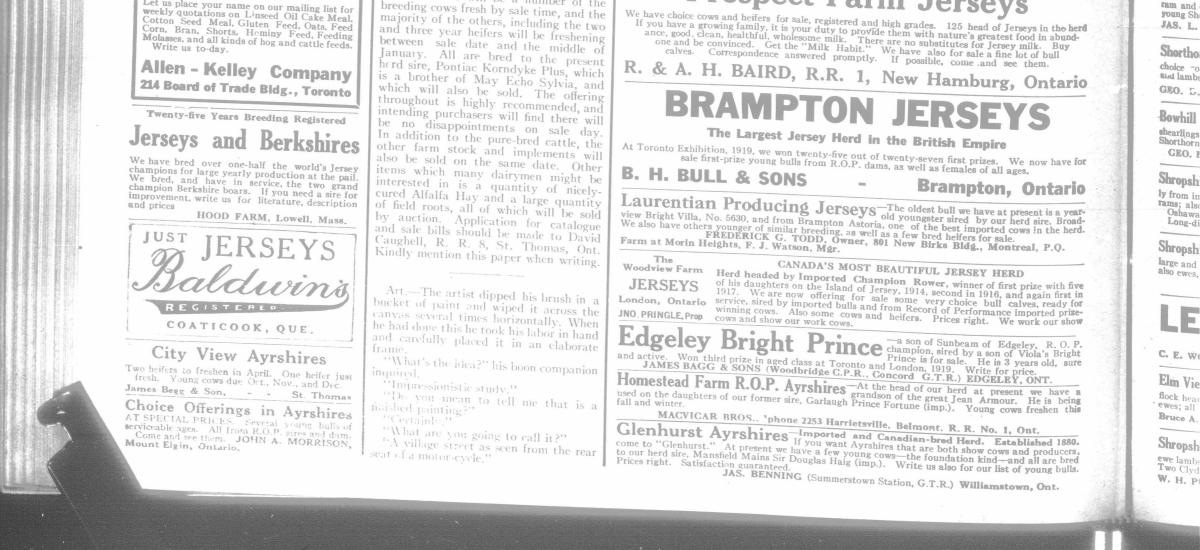
other bro lamb\_and James E

Shropst Ram La with fine stock ra seldings :

W. F. S

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SLAG

## **Best** ures

9, appears Mr. Tillet

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perience nderful ere are een inshould would in such nowing . We them.

## LIMITED tia ON, ONT.

eys reatest food in abund-r Jersey milk. Buy e a fine lot of bull and see them.

## **NOVEMBER 20, 1919**

## OXFORDS Summerhill Flock

If you want breeding stock, buy now First class Rams and Ewes different Special offering in Stock Rams. Leading flock for past 35 years, winning almost all the prizes and championships at Calgary, Edmonton, Saskatoon, Brandon, Regina, Toronto and London 1919. Write us for prices

Peter Arkell, & Sons, R.R. 1, Teeswater, Ont.

## **Maple Shade Farm**

Imported Shropshire ewes served by best imported, rams, very desirable for foundation flocks.

W. A. DRYDEN, Brooklin, Ontario

#### In Carcase Competition **SINCE 1900**

Suffolks crossed with no less than ten different breeds have won half the total awards in the Cross-bred Classes at the Great London, England, Smithfield Shows, leaving half to be claimed by all other breeds combined. We have some strong lamb and yearling rams for sale. James Bowman, Elm Park, Guelph, Ont.

Shropshires and Clydesdales For Sale Ram Lambs for sale—A first class lot of rams, good growthy fellows, good size and well covered with fine wool; also one 3-year-old ram, a sure stock ram, and two Clydesdale Stallions, one imported and one Canadian, bred right, every way inspected and passed; also several Clydesdale celdings and mares,

W. F. Somerset, - Port Sydney, Ont. Long Distance 'Phone.

## Dorsets and Oxfords I have at present a choice offering in shear-ling and ram lambs (both breeds). We were unable to show this year, but these rams are the choicest lot we ever bred. Also have four two-year-old stock rams, as well as a limited number of shearling and two-shear Dorset ewes. Prices right.

S. J. Robertson (C.P.R.)Hornby, Ont.

**Oxford** Down Sheep Present offering: ram and ewe lambs; also a few yearlings and two young Shorthorn bulls. Prices reasonable. JAS. L. TOLTON, Walkerton, R. 3, Ontario Shorthorns and Oxfords for Sale - Two choice "oan grandson of Right Sort; also ewes GEO. D. FLETCHER, R.R. No. 1, Erin, Ont Bowhill Leicesters A few two-shear rams in show condition, and several shorthorn bulls and heifers, GEO. B. ARMSTRONG, Teeswater, Ont. Shropshire Sheep 40 shearling ewes, 30 two and three-shear ewes, mostby from imported stock. A few choice shearling rams; also ewe and ram lambs. Oshawa all railroads. Long-distance 'phone. Hampton P.O. Shropshire and Cotswold Sheep A fine lot large and good quality, imported and home-bred; also ewes, all ages. Prices very reasonable. JOHN MILLER, Claremont, Ont.

## THE FARMER'S ADVOCATE.

**The Most Profitable Method** 

HAT is your time worth? Rounding up your feed materials in the old way takes time; so does figuring of rations and mixing. Feeds on the farm vary in quantity and quality. The ration is liable to be too rich-or skimped. There is loss both ways, either in loss of feed at high prices, or loss of bacon due to imperfect feeding. In short, ordinary feeding methods cannot be accurate and economical.

**Catch the Early** Markets by Using

not only finish your hogs quicker and

in better condition for market, but it

will mean more and better bacon-the

is calculated with accuracy by experts who have handled ex-actly the same hog feeding probactly the same hog feeding prob-lems as you have. They know to a certainty just what Cana-dian hogs require. The special facilities that we have at our mills and you have not, insure Monarch Feeds always being properly balanced and thoroughly mixed. With these advantages we have produced a feed that will

Monarch Hog feed

Monarch Hog Feed has all the feed-ing advantages of corn products, shorts and digestive tankage. Owing to the splendid balance in this ration, these feeds are easily digested. Hogs scramble for this highly palatable feed. It gives size, vigor and stamina. It lowers your cost of production, and at the same time gets you the quality prices.

Order a ton from your dealer. You can depend upon deliveries. If your dealer cannot supply you, write us good, firm, solid quality that ge s the direct, giving dealer's name.

## MONARCH DAIRY FEED morranteed analysis of 20% protein and 4% fat. It is a prop-erly mixed combination of Oll Cake Meal and Cotton-seed Meal with the bulky feeds, bran and corn meal. Though very rich, en-suring splendid results, it can be fed alone.

2117

#### SAMPSON FEED

This general purposes feed is somewhat similar to Monarch Hog Feed, except that oil cake meal is used instead of digester tankage; it gives results for both cattle and hogs. Guaranteed analysis: 10% protein and 4% fat.

The Campbell Flour Mills Co., Ltd., West Toronto 14 ure-bred Yorkshires



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ave at present is a year-by our herd sire, Broad-orted cows in the herd. for sale. , Montreal, P.Q.

Y HERD

r of first prize with five 1916, and again first in bull calves, ready for mance imported prize-it. We work our show

of Edgeley, R. O. P. son of Viola's Bright He is 3 years old, sure ite for price. GELEY, ONT.

t present we have a Armour. He is being ung cows freshen this

No. 1, Ont. Established 1880. cows and producers. kind-and all are bred our list of young bulls

iamstown, Ont.



flock headers. Thirty yearing and two-year-old ewes; all first-class. Write for prices. Bruce A. McKinnon, R.R. 1, Hillsburg, Ont.

Shropshire yearling ewes bred to Bibby's ewe lambs sired by him. Two Shorthorn Bulls. Two Clydesdale Stallions. W. H. PUGH, -

Myrtle Station, Ont.

When writing advertisers kindly mention Advocate.

JOHN ANNESSER, Tilbury, Ont.

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## THE FARMER'S ADVOCATE

FOUNDED 1866



Our School Department.

#### How Fruit is Judged.

Most of us have visited one or more of the big shows or exhibitions, and have wondered when we saw the long rows of fruit on plates, how the judge ever could decide which was the best and deserved the first place. Now, of course, the judge must know what he is doing or he might not be fair to everyone who has apples on exhibition. Some of us may think that it is an easy job, instead of a hard one, whereas one must be very careful or he is apt to make a mistake. Now suppose we imagined we had two plates of apples in front of us, and we will suppose too, that they are Northern Spys, because these are among the nicest of all apples and the ones we like to eat best about Christmas time. What should we look for in these two plates before we can tell which one is the better of the two?

To do that we must first think what there is about an apple that would make it better than another. In the first place, we will probably think that some apples are bigger than others, and we know that when we eat an apple we do not want it to be too small, because then there would be too much core with the result that there would not be very much of it to eat. On the other hand, apples that are very very large have not the same flavor as apples of a moderate size, so that we must see that all the apples on the plate we choose as the winning one are big enough to be called good Northern Spys, but are not overgrown. 'Size is not a very important point, but still we must consider it.

Most of us will look immediately to see whether the apples are red, or whether they are green and unripe. Color is very important in judging fruit of all kinds because as soon as fruit begins to get ripe and ready to eat, it also begins to color up. Most people, too, will buy fruit that is highly colored in preference to other fruit that has less color, and so when we are judging our two plates of apples we must remember what the consumer or the market demands. It is not possible to get too much color in fruit, as was the case with size, so we conclude that the plate of apples that has the most color is best in this respect. Now suppose one of these plates has three big apples and two little ones

Now suppose one of these plates has three big apples and two little ones, while the other has five apples that are moderate in size. What should we think about this? We would immediately say that one plate lacked "uniformity", and this would be a very serious fault, because if we go into a store to buy some apples we would not buy a basketful if half of them were very little and the half of them were very little and the other half very large. We would want them all the same size. The same thing is true with regard to color; we would them green and the other half very red. The result is that when we are judging apples we judge them in many respects just as if we were buying them, and this point regarding uniformity is very important—just as important as color, in fact. Now suppose, after we had found out which plate was the better in size, color and uniformity, we looked them over again and found that one of them was cut with a knife, or had a worm-hole, or a big, black-scab spot on the top or side. What should we do with this apple? Once more we must consider what we would do if we were buying them. Insects, such as the coddling moth, and diseases such as apple scab, do many thousands of dollars' damage every year to our fruit crops, and fruit growers have to spend a great deal of time and money in carefully spraying their trees to keep away these troublesome pests. Is it not fair that the man who goes to all this trouble in order to produce clean, fresh fruit should not be rewarded in some way for doing so? Good judges at exhibitions think that they should, and as a result they will look very closely for worm holes and scab spots. Sometimes people who are not honest will try and scrape off a scabby spot, or, if the worm hole is a small one, will try to cover it up, hoping that the judge will not see it and will believe that they have sprayed carefully and produced good fruit. The judge, however, knows that it would not be fair to encourage

people to grow wormy and poor finit so that if the worm hole is at all bad he will throw the plate out altogether, and not give it a prize of any kind. The same thing is true where there are holes in the side of the apple so that the skin is cut through and the flesh exposed buch wounds will not heal over and will pread rot if alongside of other apples is being picked for exhibition the picker will get careless and pull the stem out. This exposes the flesh too and is just as bad as a hole in the side of the apple. Sometimes the stem is put back in again to make the judge believe it was not pulled out, but a good judge will along the stem to see it they are

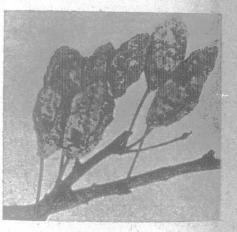
loose. Now we come to perhaps the most important point of all, and that is the quality of the fruit. How does a judge tell the quality? He almost never cuts the fruit to find out what it tastes like. It is pretty easy to tell rather by the looks of an apple whether it is of good quality or not. Most of us know this by experience, and can pick out a good apple from the top of a barrel without cutting it open. We do this by looking at the

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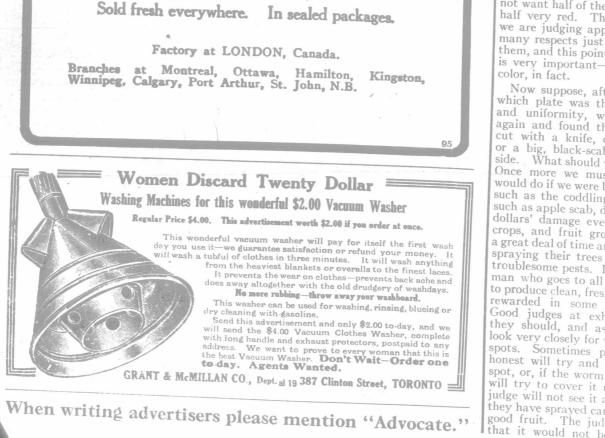
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Mummified Plums. This is caused by brown rot, and they should be picked off and burned. The disease winters in them.

size and the color to see whether it is ripe enough. An apple that is fully ripe will be as full of quality as it ever will be. Some apples will be very red outside, but if we looked at what is called the under color we will find that it is, still very green. There are two kinds of color in apples and pears, as well as in peaches. These are called the under color, which shows up before the apples begins to turn red, and the body color which is the red itself, and comes after the apple begins to ripen. By looking closely at both the body and the ground color one can get a good idea



Jersey Cream Sodas

the ground color one can get a good idea of the quality of an apple, and this point is very important.

Now there is one other point that we must look for, and that is to see whether the apples on both plates are really Northern Spys. To find this out, we must, of course, know what these varieties look like, and it is pretty easy to tell one variety from another by the shape of it. All the fruit on one plate should be shaped as nearly alike as possible, because that adds to the uniformity of the plate, and may also mean that the fruit on the plate is more likely to be all of the same variety. Thus we have covered nearly all the

Thus we have covered nearly all the points about these apples that we need to look for in order to find which plate is the best. We have looked them all over carefully for size, color, shape, freedom from blemishes, uniformity and quality, so that it is a comparatively easy matter to size them both up from what we have found out and give the first prize to the best one.

Teachers are invited to discuss school problems through this department. An intercnange of ideas and experiences will be helpful to all.

Burn the dead vegetation and plow the school garden this fall if possible. Insects and fungous diseases harbor in the rubbish about the garden and thus survive the winter.

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wormy and poor fruit, worm hole is at all bad he plate out altogether and prize of any kind. The true where there are holes the apple so that the skin h and the flesh exposed will not heal over and will alongside of other apples box. Sometimes when an picked for exhibition the careless and pull the stem poses the flesh too, and as a hole in the side of the imes the stem is put back ke the judge believe it was t, but a good judge will stems to see if they are

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#### NOVEMBER 20, 1919

### TIRES-TIRES-TIRES

\$11.95 While They Last Get a pair of these non-skid double tread, double strength, double Mileage, 90% punc-ture proof tires, guaranteed 3,000 miles.

## 4000 MILES From Old Tires By out 2 in 1 method sew Two Old Tires of the size usto One Tr cent Puercture Pro Sales Dept Two-In-One Tire & Vulcanizing Co. 119-11916 King St. West. HAMILTON, ONT The name SUMMERFIELD assures you of A SQUARE DEAL 47 years of square dealing has earned us the confidence of trappers all over America, Canada and Alaska. WE CHARGE NO COMMISSION If fair, honest grading, prompt returns, and top market price are what you want, then you will make no mistake in shipping to the old reliable house of Summerfield. Write now for our reliable prices, supply catalog and shipping tags. Simon Summerfield & Co. Dept. 171 CALLS ST. LOUIS. MO. Be Your Own Blacksmith Save repair bills and avoid the loss of valu-able time due to break-downs. Get a Black-smithing Outfit of your own. Do your own re-pairing and shoe your own horses. Hundreds and black for first We fm

THE FARMER'S ADVOCATE

HY is it that the first thing you do when you buy a piece of land is to fence it-provided, of course, that the fence is not already there? Because a fence is a form of protection your

farm can't get on without.

Yes, sir, we must have fences of some description. If there are a lot of stones on the land you can make a fence of them-and clean the land at the same

The old "snake fence" was made of rails split from the timber cut to clear the time. land. Nails and wire were scarce in those days. Snake fences are now out of date -they made a breeding spot for weeds. Woven wire makes the best fence, perhaps; but out west, where many farmers boast of a "mile furrow," two strands of barb' strung on willow posts is a "legal fence." In the Eastern Provinces you will see fences made of stumps on edge eight feet high.

And here is another point about fences. If the frost squeezes out the fence posts during the winter, the first thing you do in the spring is to take down the post-hole auger and put them back. If the horses scratch against the rails and knock them off, you immediately put them up again. If you have a cow that is bad on fences (a "breachy" cow she is called in some

parts) she goes to the butcher, that's all there is to it. Fences are a certain amount of trouble and expense, but you can't help that. You must have the protection that they give your crops and your live stock. There is no use growing crops if you haven't fences to protect them.

haven't

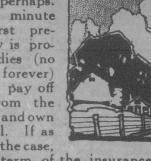
a Life Insurance fence around the place. He should take out five thousand dollars of En-

dowment Insurance at once, or more perhaps. From the very minute he pays the first premium his family is protected. If he dies (no man has lived forever) his family can pay off the mortgage from the insurance money and own the farm in full. If as probably will be the case,

he lives for the term of the insurance, he will get from the Company a cheque for \$5,000, with profits in addition. He can then pay the mortgage himself or use the money as he likes. That's real protection !

If you will go to the window now and look over





one other point that we d that is to see whether ooth plates are really To find this out, we now what these varieties is pretty easy to tell another by the shape of on one plate should be alike as possible, be the uniformity of the so mean that the fruit re likely to be all of the

covered nearly all the e apples that we need er to find which plate have looked them all r size, color, shape, nishes, uniformity and s a comparatively easy m both up from what ut and give the first le.

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vegetation and plow this fall if possible. is diseases harbor in the garden and thus



here is no use raising stock if you fences to keep them in. One of the strict rules of farming is "keep the fences tight.

The reason we have talked so long about fences is this: Fences are one form of protection; Life Insurance is another.

Take this case for instance: Some young fellow buys a farm. He pays so much cash and gives a mortgage for say \$5,000. He can pay the interest all right, but how is he going to pay the principal? How is he going to be sure that if anything happens to him his family will be protected against the foreclosure of the mortgage? There is only one sure way, and that is to build

your place, you can see

the fences and cross fences. Just think how impossible it would be to farm without them. Then think of how much more important is the protection that Life In\_ surance would giveyou and your family. Can't you see how necessary it is that you erect a

Adde



Life Insurance fence about your place and about, vour family?

Then let us tell you about an Imperial Policy that will exactly fit your own particular needs and circumstances. Just complete and mail to us the coupon in this advertisement. You do not need to invest if you do not care to. But get the information. You will find it interesting.

THE IMPERIAL LIFE ASSURANCE COMPANY of CANADA TORONTO, ONTARIO HEAD OFFICE

Branches and Agencies in all important centres

1 will read your booklet if you mail it to me. But it must be understood that this does not commit me to any further action.

years of age and

could save and invest \$.....each year

2120

THE FARMER'S ADVOCATE.

NOVEMBER 20, 1919

Iraining for Head and Hand

With Wonderful Future The coming year will be the greatest in the history of the Auto Industry. Producers and distributors of every kind of Auto, Truck and Trac-tor will be tremendously busy. Garages and Service Stations will be rushed to the limit. Already this condition is being felt as never before. Everywhere there is an insistent demand for men-trained men who know how to adjust, repair and care for these thousands of machines. And the constantly increas-ing number of cars means an ever increasing demand for bained men. ing number of cars means an ever increasing demand for trained men.

production.

**Big Field** 

Makes No Difference It makes no difference what you have done nor what you are doing, you can successfully learn the Auto and Tractor Business if you so desire. Our Course will positively teach you this remarkable business with its wor derful future and unlimited field of opportunities Grit, perserverance, determination, a willingnes to work and a desire to get ahead are the chief re-quisites. If you have these, Our Course will tead you this work—will fit you to command big money

Previous Experience

6,353,233 cars and trucks licensed in the United States up to July 1st, 1919. Thousands are being added to this astounding list every day unt

the number is now well over seven millions. At the present rate it will reach the eight million mark before the end of the year, and still the demand is far ahead of uction. And Detroit is the Heart of this tremendous Industry.

Really, there is no limit to your earning capacity after you have mastered this business. This can be made the stepping stone to a most successful business career. The training you get here will fit you to hold positions which before were out of your reach. Factories, Garages and Service Stations all over the Country are continually asking for our men. They know the value of the training we give and do not besitate to give our graduates the preference.

INR

The Auto Center is the

ogical Place

Thundreds of our students go right from Our School into business of their own,—many of them who had never before thought such a thing possible. Our Course convinced them that they had received a training that was invaluable, capable of placing them in business for themselves. And these students are suc-cessful. They write us of having incomes way. beyond their expectations, all because of the training received at the M. S. A. S.

#### Sell Autos, Trucks and Tractors

Here is a big field for our students. The training we give helps you to know machines as no average salesman can know them. Your thorough knowledge of the various makes enables you to give expert advice on autos, trucks and tractors. It gives you a big advantage in the selling of these machines.



View of our block test department where we have from 18 to 25 motors all the time for students to work on. Sprague Elec-tric Dynamometer shown in center background

Not a Ome-Man School. Our course is not made up of one man's ideas. It represents the combined experience of many,—it consists of the latest, newest and most practical ideas of the biggest men in the auto, truck and tractor business. Our School en-joys the fullest co-operation with manufacturers, ser-vice stations, garages and owners,—a factor of vital importance to our students. importance to our students. A. G. Zeller, President.

DETROIT THE HEART OF THE AUTO INDUSTRY

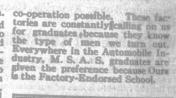
Your success in the Auto Business depends upon -what you know plus what you are taught and trained to do correctly. Here at the M. S. A. S. you are thoroughly instructed in every phrase of the Auto Industry. You learn every part of the work by actually doing it. Such a training enables you to earn the biggest salaries in the business.

Unr Schout Recognized by Garagamen. The record made by Our Graduates has led hundreds of Garage Owners to send men to us for training. These men have recognized the value to them of having trained, com-petent men, and they know that our course gives them that kind. We are also able to place Garage Owners in touch with men in their own vicinity who have taken Our Course, therby helping both these Garagem en and our students.

A practical working knowledge of all cars is required of each student before he can pass our final examination. This test is made in our repair department.

Brazing, Welding and Tire Repairing Taught.

Thess eubjects are fully covered in com-





In this room the student beco thoroughly familiar with every type of starting, lighting and ignition



Not a One-Man School.

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Here is shown the Electrical Lecture Room where the ele-mentary principles of suto electrics are explained to the students.

What We Teach.

Each student is there ou hgly taught the common principles of auto, truck and tractor construc-tion. Every part of a car and its operation is explained in detail. Starting, lighting, ignition, car-burction, combustion, hubrication, transmissions, differentials, chassis construction, etc. and

thoroughly and practically. Not construction, etc.,—all are covered thoroughly and practically. Not one thing is omitted. You are faught automobiles, trucks and tractors as no other school can possibly teach them because of our unequalied equipment and the fact that our School is located "In the Heart of the Auto Industry."

The growing importance of the tractor industry led us to include a complete tractor course with our regular auto course, thereby giving our students the broadest possible training training.

#### **Complete** Training in Auto Electrics.

Electrics. This is a very important feature in our C ourse of Instruction. Students are made familiar with every known type of starting, light-ing and ignition system. So thor-oughly are our students taught this subject that none of them have any difficulty in locating and cor-recting any trouble occurring in auto electric systems. recting any trouble auto electric systems.

#### Complete Tractor Course Included.

Our Students are also given complete our Students are also given complete and thorough instruction on the care, re-pair and operation of Farm Tractors as a part of our regular Auto Course. The constantly increasing use of tractors has created a big demand for trained tractor men, hence this addition to our Course without extra charge. Further assistance is realized from Manufacturers who have placed machines with us for the benefit of our Students.

#### Read

#### The Money-Back Guarantee.

We guarantee to qualify you for a position as chauffeur, repair man, demonstrator, a ut o electrician, garage man, automobile dealer or tractor mechanic and operator, paying from \$100 to \$400 monthly in a reasonable time, or refund in a reasonable time, or refund



Start Any Time-Don't Wait.

Start Any Time—Jon't Walt. Instructions can begin same day you arrive,—no wasted time. We have three classes daily. Students are given every possible assistance. If necessary, we aid you to get a job where you can earn money to help pay expenses.

### Ask For Catalog-Write to-day

These eubjects are fully covered in com-flete Course separate from the Auto Course. Brazing and Welding have be-flucture and the part of the Auto and comprehensive and furnishes a valuable addition to the equipment of a student advays a big demand for trained, com-petent tire repair men. Big Factories Endorse Our

Big Factories Endorse Our School.

School. The thoroughness of our me-thods and the completeness of our equipment are well known in the Auto Industry. The biggest factories in the Country heartily endorse our Course. In fact, many of the leading Auto Manufacturers assisted in outlining our Course. and they give Our Students the fullest outlining our Course, and they give Our Students the fullest

SEND THIS COUPON TODAY MICHIGAN STATE AUTO SCHOOL 1851 Auto Bldg., 687-89-91 Woodward 1851 Auto Bidg., 65/-67-74 Ave. DETROIT, MICHIGAN, U.S.A. Gentlemen: Please send me absolutely FREE, New 176-page Illustrated Catalog. "Auto School News" and information as checked below [] Auto and Tractor Course [] The Repairing Tractor Course [] Brazing and Welding () for teach course you are interested in.) (Mark each course you are interested in.) Or, better still, you can expect me about Name. Street.

