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AGRICULTURE, STOCK, DAIRY, POULTRY, HORTICULTURE, VETERINARY, HOME CIRCLE. ENTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875. No. 1169 LONDON, ONTARIO, FEBRUARY 18, 1915.

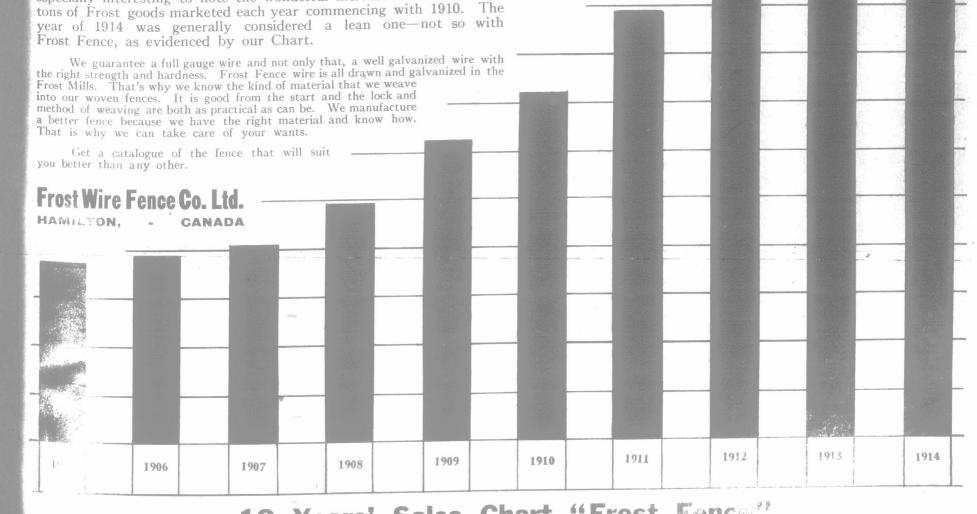
Four Fold Increase In Ten Years What Is The Answer?

After all other arguments are exhausted regarding the real merit of wire fence, there still remains this proof: "The actual amount sold." Frost Fence must be right, otherwise, the demand from year to year would not go on increasing at the rate this ten year Chart shows.

Our products absolutely satisfy and will continue to do so. The more that farmers know of wire fence: the more farmers there will be buying Frost Fence. It gets the confidence of the buying public and you can see for yourself by the increased business from year to year that it holds that confidence.

Frost Fence First

The accompanying Sales Chart shows how the demand for Frost Fence increases each season as compared with the previous year. Our sales during the years from 1905 to 1908, although substantial, show only a small increase. It was throughout this period that we saw the necessity of equipping to make our own wire, giving the users of Frost Fence something better. We, therefore, built and equipped our own Wire Mill and it is especially interesting to note the wonderful increase in the number of



Years' Sales Chart "Frost Fence" 10

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THE FARMER'S ADVOCATE.

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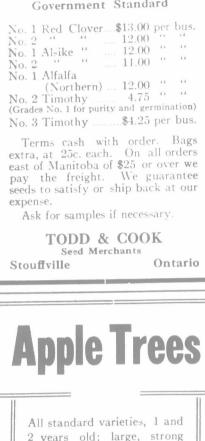


grown. Our aim is to buy direct from farmers, and sell direct to the farmer who sows. We mail you samples of our seeds on request. You send cash with order, and if seeds do not entirely satisfy you on arrival you ship them back at our expense, and we refund money. Bags are 25c. each. RED CLOVER - No. 1 Government

O.A.C. No. 21 BARLEY-Ask for prices.

The Caledonia Milling Co. Ltd.





2 years old; large, strong and clean; grown with special care from selected buds for our own planting.



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It's the Roof that Makes or Mars Your Barn

Because if the roof is not watertight no matter how well built the rest of the barn may be, your leaky roof will quickly ruin anything you may have stored under it. A "Pedlarized " roof of "George" Galvanized Steel Shingles is the best roofing that 53 years' experience has taught us how to make. Not only is such a roof absolutely watertight, but the fluting gives it exceptional strength as well as making it the handsomest roof you can buy.

Pedlar's "GEORGE" Shingle

MADE IN CANADA Write now for Booklet " L. F. Also get our quotations on Corrugated Iron Roofing and Siding, Brick and Stone

is guaranteed rainproof on any roof having a fall of 3 inches or more, to the foot. Each shingle has a hook-like flange along the top and bottom edges. The top flange is on the outside, and the bottom flange underneath the shingle. As the shingles are laid, these flanges intermesh, and the self-draining side locks seal up

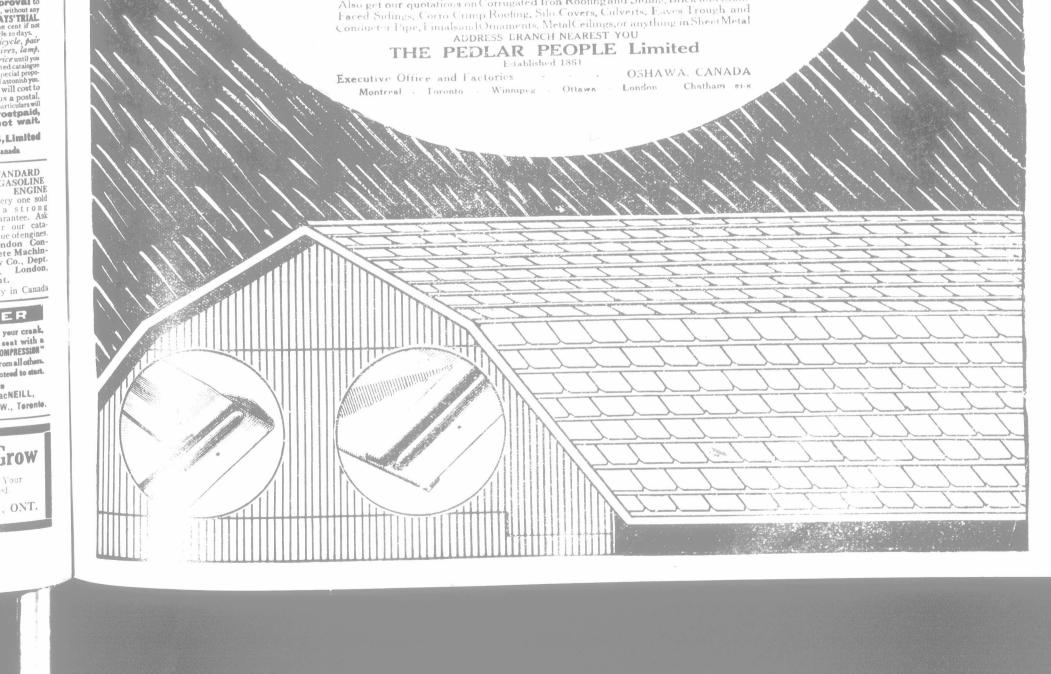
> continuous sheet of steel, and a perfect watershed.

No rain can get in between the shingles, because the side-locks are sealed top and bottom, as shown by the illustrations inset below. Note the top flange which seals up the gutter, and the long nailing flange which extends to the bottom of the shingle. These features render the roof absolutely proof against driving snow or rain.

the side seams, making the roof one Each "George" Shingle is 24 in. x 24 in. in size and 25 shingles will cover 100 square feet of surface.

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THE FARMER'S ADVOCATE.

FOUNDED 1866



Open to every Canadian Farm Owner. It costs nothing to enter.

The competition is open to any Canadian farm owner or to any member of his family living on the farm with him.

It isn't necessary to spend a cent to enter this contest. There are no en-trance fees. The prize will be awarded to the one who gives the most and best reasons why there should be a silo on every farm.

The "reasons" should be written plainly in pen and ink, or typewriter, on one side of the paper only, and sent to our Peterboro address, as given below.

The prize will be one of our 10x20 Ideal Green Feed Silos, complete, with roof, having a silage capacity sufficient for seven or eight cows.

If the winner of the prize prefers a silo of larger size, he will be given credit for the list price of a 10x20 silo toward the payment of a larger size silo.

an Ideal Green Feed Silo before June 1st, 1915, the date this contest closes, credit will be given him for the list price of prize silo toward payment on whatever size silo he may have ordered.

and no entries will be considered after

Our new silo book, containing a great deal of silo and silage information, will gladly be mailed upon request.

Should the winner of the prize purchase

The contest will close June 1st, 1915, that date.

DE LAVAL DAIRY SUPPLY CO., Limited 115 Park Street, Peterboro, Ont.

GiveYour Crops a Good Start

PROVIDED you select good seed and plant it in a good seedbed, you can be reasonably sure of good crops.

- Contraction

MADE IN CANADA

Here is a chance

to get a silo free

A Peter Hamilton Cultivator will properly work your soil into a perfect seedbed. It is designed to go over every inch of the ground and till to an even depth. There are several groups of teeth attached to separate frames. Sections are of heavy extra-strength steel. Teeth are amply



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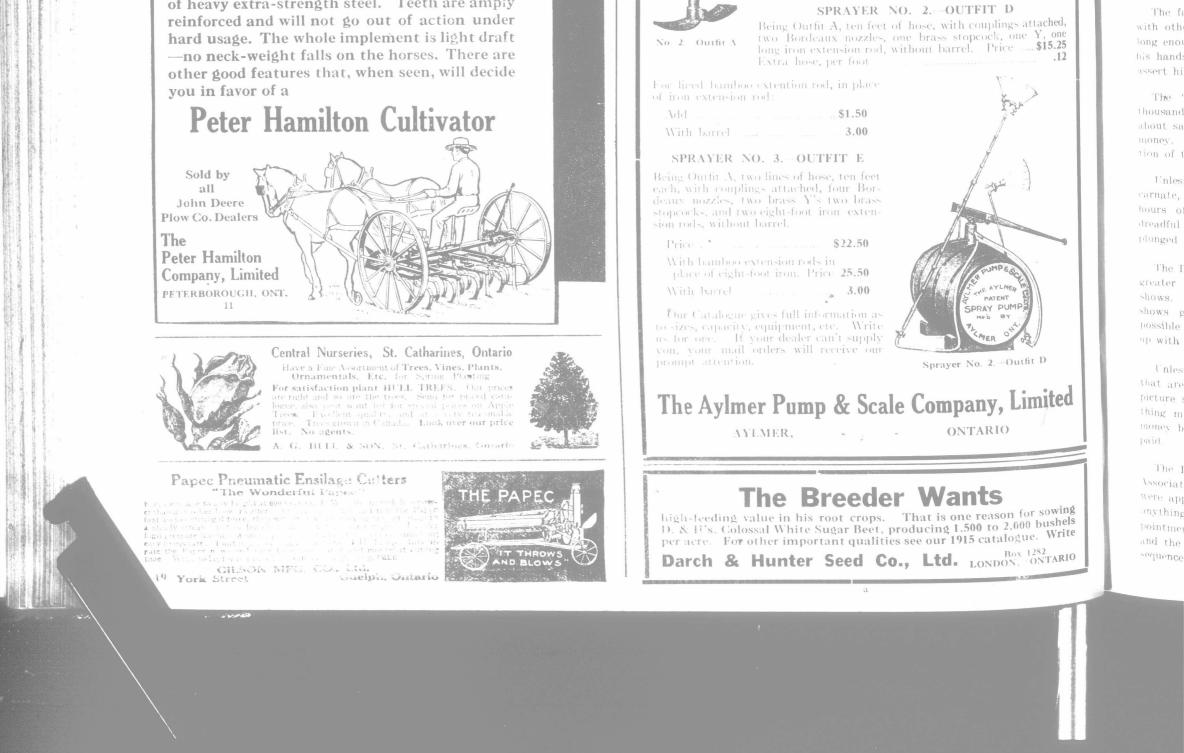
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EDITORIAL.

Are Canada's stockmen downhearted ? No !

The worst Spring the world has ever seen fast approaches.

Do not forget "The Dollar Chain." The money is urgently needed.

Are you ready to produce the most your farm is capable of in 1915?

What have the war lords accomplished for the benefit of the German Fatherland ?

Six months of war cost \$8,575,000,000, to say nothing of death and destruction beyond conception.

In making up the balance sheets for the past year how many of our farms have been yielding ten and twelve per cent, dividends with an occasional bonus dividend thrown in?

Sheep breeders have decided to talk more "sheep" and less "dog" at annual meetings. This is a pleasant, and let us hope profitable, change. Much of the so-called "dog nuisance" is imaginary.

We are glad that it is admitted that the farmer must solve the problem of increasing production himself. The farmer knew this long ago, and all he asks is a little aid to secure the labor. Will he get it?

The farmer is urged to work hand in hand with other interests. He has been doing this long enough. The other interests have held both his hands until he has had no opportunity to assert his rights.

LONDON, ONTARIO, FEBRUARY 18, 1915.

The Contented Unemployed.

The towns and cities of this country have a problem to deal with for which they have no solution. The fact that 200 unemployed in the city of Toronto prefer the hospitality of the city soup kitchen rather than the honest employment on a farm in Huron County, is conclusive evidence that the unemployed are not a result of economic conditions which exist in this country. They are unemployed by choice, and will remain unemployed so long as they receive free meal tickets or free soup. Toronto does not stand alone as a city with this class of unemployed, they exist in every city in Canada, and the cities which harbor them are at present not altogether to blame. There is a certain class of manhood which has little ambition for work, and they are stealing from the working people just as much as the "honest" laboring man with a large family who steals a few bushels of coal with which to warm his home. The Provincial Secretary has initiated a commendable scheme in the northern part of this province where people out of work 'may'' assist in clearing waste lands and transforming it into productive areas. The word 'may'' should be changed to ''must'' in relation to these satisfied unemployed in our cities. They should be compelled to work or starve in a pursuit that will result in production in some shape or form.

Know, Then Talk.

Before a gathering of men representing divers interests such as agriculture, transportation and finance, J. W. Flavelle, of Toronto, remarked that every speaker should confine his words to the subject with which he was best acquainted. The speaker practiced his own doctrine in his few remarks that night, for the character of his speech revealed the fact that he knew something about finance, and that was the topic allotted to him

Ontario farmers is not money which one would expect to be put to this use. It is largely the accumulations of farmers who are now retired and who lack the ambition to invest it elsewhere, and who furthermore feel that the whole country will stand behind their deposit no matter what hapuens the bank.

No. 1169

The advice is sound that people should talk about that which they understand, but it is furthermore to be recommended that the farming element of Canada acquaint themselves with financial matters and draft some scheme whereby monies may be procured with which to finance agricultural operations. They need the money in their business.

An Important Parliament.

On first thought it appears rather far fetched to think of the meetings of the Live-Stock Associations, held recently in Toronto, as a parliament. But that term was applied to their deliberations with considerable appropriateness, and in normal times their actual significance and importance would compare favorably with many sessions conducted under more pomp and show, and whose doings are recorded in Hansard to be stored away in fire-proof vaults and carefully guarded in order to reveal to future generations the wisdom of their progenitors. The nation is first of all dependant upon its field crops and live stock, for on account of them or by them the wheels of all industries continue to revolve. There must be some governing body to control the destiny of the pure-bred stock industry, for upon it depends the entire enterprise which furnishes our tables with food or provides us with animals to do our work, and this body of legislators may well be termed the Live-Stock Parliament. The simile is all the more fitting when we consider the function of the Camadian National Live-Stock Record Board, which consists

The "Financial Times" tells of answering thousands of enquiries mostly from town people about safe and satisfactory investments for their money. Were many of them turned in the direction of the slogan—"Back to the land"?

Unless a madman out and out or a fiend incarnate, what can the Kaiser be thinking in his hours of reflection, if he ever has any, of the dreadful havor wrought by the war in which he plunged the world ?

The Dominion Minister of Agriculture promises greater assistance to live stock at the 'larger shows. It seems too bad to let the smaller shows go down for lack 'of funds. Is it not possible for the Provincial Government to brace up with regard to this ?

Unless all signs fail the city and town throngs that are daily and nightly crowding the moving picture shows and other resorts will have something more serious to dol with their time and money before the great war is over and its bills paid. \hat{s}

The President of the Ontario Horse Breeders' Association highed that some Army horse buyers were appointed on Government "pull." Is there anything strategies about that? Government appointments are often made for the same reason, and the public were the shot and takes the consequences.

Much has been said and much has been written by farmers and their friends regarding financial matters as they concern agriculture in general, and it may be easily seen that many of them are not any too well acquainted with the subject they make bold to discuss. The same is true, however, on the other side. Volumes and volumes of advice are handed out to farmers by people whose very words reveal the ignorance under which they are laboring, but exception must be made here for very often bankers or transportation officials make it their business to understand agricultural conditions. Their business depends upon it, and it is a part of their policy to understand the industries to which they cater.

At no time was the need of available money and labor more necessary in Canadian agriculture than it is at present. If farmers are to produce more they must be provided with two prerequisites, labor and money, and yet up to the time of writing there is no solution of the problems in sight. It will become the duty of some body of farmers to study finance as it concerns agriculture, and submit a scheme to the country and to the Government for approval whereby conditions may be alleviated.

It has been asked why do not the farmers of Ontario with \$100,000,000 deposited in the chartered banks lend it to their neighbors at a rate of interest much higher than what they receive from the banks. The apparently enormous sum of money which is deposited in the banks by

of representatives from all the various breed associations. It is in fact the Cabinet of the farmer's parliament. Their duty is to protect the live stock of the country and keep it pure. All the large breed associations in Canada except one are combined under a jurisdiction common to all, and the Canadian Records are the pride of all breeders of the Dominion, and an object of admiration for the entire world.

At a time when the Empire requires food no reasonable efforts should be spared to enhance the value and numbers of our live stock. This condition has applied to Canada for the last half century, but it appeals with more eloquence at the present time than ever before. Canada is particularly adapted to stock rearing, yet we have only one sheep and three cattle to every four of a population, and two swine to every five. We have, according to the last census, 2,000,000 sheep and 6,000,000 cattle. Roughly, Canada possesses 1-63 of the world's cattle, 1-47 of the world's horses, 1-28 of the sheep, and 1-58 of the swine. The United States boasts of a comparatively large number of the World's live stock, and the per capita number of animals in the neighboring republic exceeds the Canadian figures. It has been said that the Province of Quebec sustains fewer sheep than it did forty years ago, and the same may be said of Canada as a whole. However, this in itself does not indicate a falling off in all lines. In many cases sheep have been replaced by beef and dairy cattle, but the entire industry does not measure up to a standard which does justice to the country.

THE FARMER'S ADVOCATE.

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At this season of the year farmers will begin to look for labor, and when the question is put to the unemployed or to under-paid men in the city why they do not work for a good salary in the country, their reply too often is that they do not get fair treatment from the employer on the farm. There are two sides to every story, of course, and there are two sides to this question, but we fear that in too many cases farmers do not consider the rights of the laborer and expect

too much of him. Every honest man will pay for his labor and will be willing to pay for what he receives, but the time of the eighteenhour day is past. Labor unions and governments have stipulated a more reasonable period for work during each twenty-four hours, and although labor has been scarce in the country, for reasons different from these set forth in this case, yet if the farmers generally will be satisfied with a good honest day's work from the man in their employ, we venture to say that labor conditions will be improved throughout the country. If the laborer does not know his work and is not accomplishing much, it is not reasonable that he should work longer hours in order to perform a certain amount of work. It is more trying on the uninitiated to perform a small amount of work which he does not understand than it is to the experienced worker 'who does a commendable day's work. Shorter hours and better treatment will do something to make farm work appear more inviting to the underpaid or unemployed man who should be in the country to-day. Furthermore, if laborers could accurately estimate the value of their work in terms of production, in bushels or in pounds, the salary could be more easily adjusted

Nature's Diary.

A. B. Klugh, M.A.

A sparrow which is common throughout Canada, wherever there are fields or open country, is the Vesper Sparrow. It may be readily distinguished from all other sparrows by the fact that it has white outer tail feathers, which show very conspicuously when the bird is flying away from one. Its name is derived from its habit of singing in the evening, though as a matfact it sings at all times of the day, as far as my observations have gone, quite as vigorously in the early morning as in the evening. Its song somewhat resembles that of the Song Sparrow, but instead of starting on three high notes its first three notes are much like "wheoo-whee-oo-whe-hee." To my ears this song is not at all hard to distinguish from that of the Song Sparrow, but to many the songs must appear very similar, for when conducting classes in bird study at the Macdonald Institute at Guelph, I found great difficulty in getting some students to discriminate between the songs of these two The Vesper Sparrow is often termed the "Grey-bird," a name which is applied to many small, ground-haunting birds. It builds a nest composed of grass-stems and rootlets on the ground in open places. The food of the Vesper Sparrow for the year consists of sixty-nine per cent. vegetable matter, and thirty-one per cent. animal matter, If we consider its food for the spring, summer and autumn months, that is during the period which concerns us in Canada most directly, we find that the animal food is slightly in excess of the vegetable. This animal food consists entirely of insects, mainly of beetles and grasshoppers. 15 soon as beetles appear in the spring the Vesper is on the alert to capture them, and by May they constitute one-third of the total food, but as grasshoppers become more and more abundant stituent. In July they form forty-one per cent. opear in the menu of the Vesper. Of the seeds while some eleven per cent, is grain. The latter is exten mostly in August, and consists of waste grain picked up in the fields at harvest time We can readily see from its bill-of-fare

that the Vesper Sparrow is a very beneficial species. A little sparrow which is a very common resi.

dent of the dooryard and garden is the Chipping Sparrow. Before the introduction of the House Sparrow this little bird was the commonest species about dwellings, and this fact has given it the scientific name of Spizella socialis, "the sociable little sparrow." The name, Chipping Sparrow, comes from its song which is a high trill, and which is usually rendered in syllables as "chippy-chippy-chippy-chippy." This species may be known by its chestnut crown and plain grey breast. It builds its nest in bushes and vines, constructing it of grasses and lining it with hair. I have sometimes heard it termed the "Hair-bird" from this well-lined nest which it makes. The eggs are from four to five in number, and are a pale blue in color, spotted with black at the large end.

The Chipping Sparrow ranges throughout Canada, from the Atlantic to the Pacific. As in the case of the Song Sparrow, Vesper Sparrow and all other species which have a wide range, the Chipping Sparrows from different regions show slight differences. When the birds of a certain species show these slight but constant differences they are termed a sub-species. In the case of some of these sub-species the difference between them are quite marked, so marked indeed that when they were first discovered they were described as distinct species, but as more careful study was made of bird-life right across the continent it was found that these so-called species gradually merged into one another, so that they were not distinct species. So they are called sub-species, or geographical races of the species. Thus, in the case of the Song Sparrows of the prairie region they are much paler than those of the east, while those of the Pacific Coast are much larger and darker, yet there is no sudden change as one goes across the continent, and all are races of one species. In the case of the Chipping Sparrow the Western birds lack the reddish-brown on the back which is characteristic of their Eastern relatives

In its food habits the Chipping Sparrow is highly beneficial, as it feeds almost exclusively on insects and weed seed. It raises two broods of from three to five young in a season, and these youngsters require very large numbers of insects for their sustinence. Dr. C. M. Weed has seen a Chipping Sparrow carry fifty caterpillars to its The adults themselves young in twelve hours. eat great numbers of insects, among them being some of the most injurious forms, such as canker worms, tent caterpillars, army worms, and weevils. Its food, while with us, is nearly all insects, as most of the weed seed is consumed in winter

The Need of Fruitgrowing.

Although cold-storage or ordinary storage plants some times act in restraint of trade it is necessary that more storage plants be established for carrying fruit over the seasons of abundant offerings on the market. The season of 1914 and 1915 will demonstrate this necessity very thoroughly. It is usually noticeable that price at the beginning of the season will be followed by more handsome figures during the clos-High prices ing of the selling season for fruit. put a damper on the entire season's market, for people will not start to consume, and prices drop not to recover again during that year. Poor fruit is sure to go on the market, and it has the effect of weakening prices. It may be claimed that people are willing to pay the price of good fruit, but poor fruit or poor commodities of any kind tend to reduce the value of the better article. With some system of storage more extensively in use the fruit supply could be doled out more efficiently than is now being done. Fruit growers who stored their crop in the fall of 1914 are now receiving favorable prices for their product.

IANGE OF ADDRESS.—Subscribers when ordering a change of address should give the old as well as the new WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles. articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve "The Farmer's Advocate and Home Magazine," Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have ap-peared in our columns. Rejected matter will be returned on receipt of postage.

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The Farmer's Advocate

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

Published weekly by

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JOHN WELD, Manager.

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

ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address-THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (Limited), London, Canada.

True it is, only matters pertaining chiefly to pure-bred stock are dealt with at the annual meetings of the associations, but this has its influence on the entire live-stock industry. Even those farmers or breeders who are not rearing ould her the head of the herd or flock, and he should be looking forward to that day when his entire stock will qualify for registration in the National Live-Stock Records of Canada. At pres ent, 1.25 per cent. of the cattle, 1.04 per cent. of the hogs, and less than 1 per cent. of the horses in the Province of Quebec are pure-bred. Ontario may present more favorable percentages, but pure-bred stock is regrettably scarce in Canada. Now that we have some of the best blood on the Continent, and have been importing so long from the foundation herds of the Old Country, it is time that more farmers reached out for improved sires and dams, and aspired to better things in their herds and flocks. It is not necessary to have champion stallions and bulls or thirty-thousand-pound cows. Records, are made for the purpose of testing certain strains, and as a means of advertising, but when one obtains the progeny of such parentage he goes a long way towards eliminating the misfits and undesirables that crop out as the result of all breeding operations.

foundation stock the breeders of this country will be proud that such vigilance has been maintained. The associations having the destiny of the various breeds under their control have been working with one end in view, and that is to keep them pure and in their pure state before the public. Breeders of all kinds of stock should look to their deliberations for council and advice, and aspire to better things through the assistance of the National Records and the sessions of the Live-Stock Parliament.

A Compromise Required in the Labor Market.

It may appear autocratic on the part of the Canadian National Records at times when they refuse to register animals that have a number and a certificate which look quite official but have been granted by some association or society which has no standing, or it is not recognized by the Canadian National Records. Live-stock breeding is a world business, and our records must be recognized in all countries. The Countries make our standard second to none and if at the conclusion of the war, we are called upon for

A Chance for the Banks.

The York Co., Ont., council at a recent meeting is reported to have adopted unanimously a resolution to the effect that the Dominion Government should require the banks to provide better financial accommodation for farmers, putting them on a parity in privilege with business con-

The Convention of the Fairs and Exhibitions Association did not relish the proposal to cut the Government Grants to Fall Fairs in half, but like many another organization of producers their pleas fell on deaf ears. Fall fairs have in the past been considered one of the best educational agencies in operation to aid the producer to in crease his output, but they must suffer with the rest as a result of war.

The season of 1915 will afford an opportunity to all lines of industrial enterprise to demonstrate their actual value to the country, and where they are in time of need.

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THE FARMER'S ADVOCATE.

THE HORSE.

The Actual Cost of Horse Labor.

Editor "The Farmer's Advocate"

In our cost accounting on our farm here, we have this year adopted a system which we believed would enable us to determine the cost of a horse-hour during our year. We have completed the year and have now worked out this cost, and you may be interested to know how we figure it. As you are aware, we keep a detailed record

of the hours spent by the horses on various crops on which they work, so that we know at the end of the year absolutely the total number of hours that our horses have been out of the stable working, and we also know the number of hours that was put on various crops to make up that total. We also know the cost of the feed, as practically all the feed this year was bought. Our proposition is an orchard proposition, and up to the present we have grown fruit and vegetable crops between the trees, and bought our horses' feed. Even if we were not buying the horse feed, it would be easy to know accurately what we are feeding the horses, and to know the value of the We also know what it cost us for blacksmith bills, to keep our horses shod, and we have the cost of veterinary attendance.

We know the value of our horses, and can figure interest and depreciation, which is figured by the valuation of the horses at the beginning of the year, and another valuation at the end of Then, we have a feeder, who does the year. nothing but feed the horses and look after the barn, cleaning stables, etc. This goes as a part of horse cost. Added to this we have a foreman whose duty is to look after the horses and the men driving them, and whose time is not charged against the various crops as the teamster's time is, consequently, his time should go in with the horses' cost in order to enable us to cover the

entire cost of the horses. Now, I think you will agree with me, that if we add these items together and divide into it the total number of hours the horses worked during the year, we get the exact rate per hour our horses have cost us for this year, which is figured from January 1, 1914, to December 31, 1914.

The following is a statement showing the way we have figured it :

Actual value of 29 horses...\$5,935.00

Interest on same	\$ 356.10
Oats and concentrates, including molasses	
meal	2,374.59
Hay and labor of drawing	978.90
Labor of feeder and foremen	1,153.02
Horse shoeing bill	155.15
Depreciation on horses	255.00
Veterinary bill	25.00
Total	\$5,297.76
Total hours worked by horses 45.50	3 Rate

Total hours worked by horses, 45,503. Rate

Time Record for Horses.

	10	30	200	348	10	390	100	10	102	20	- 30	128	3
Saturday, Aug 1		30				50				20		128	238
Friday, July 31			60			140			30				230
Thursday, July 30.			100			120					10		230
Wednesday, July 29			40	30		80			40		20		210
Tuesday, July 28				210									210
Monday, July 27			I AL OI	108	10		100	10	32				260
	Hrs.	Hrs.	Hrs	Hrs.	Hrs.	Hrs.	Hrs	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Tota
	Dev alop	Plowing Young Orchard	Drawing Manure	Harvest Rye	Cultiva Cabbag	Drawing Pea Str	Cutting Peas	Plowing Cherry Orchard	Potatoe	Pulling Stumps	Cultiva Tomato	Disking Wheat	
	men	۲. –	br	esting	ting e	raw		× =	5.0		ting	Gro	

This is the same form of time sheet that we use for our men, and it holds the time for a man, or in this case of the horses, for one week, and these various totals are tabulated in a separate book weekly. We have 52 of these sheets, covering the year, and we have all the results tabulated in columns in a separate book.

P. E. ANGLE. Norfolk Co., Ont.

Do Stallion Owners Receive Fair Treatment?

Editor "The Farmer's Advocate"

Now that the season will soon be on us it is worth while comparing the methods in use in Scotland with those in vogue here. The use for good horses has never been so badly needed as it is at the present time. It now lays with Canadian horsemen whether they are going to take a grip of the world's markets or not. The breeders of this country may be classed in two kinds, namely, first, the farmer who watches his mares, and if they come back he promptly returns them to the horse until he is satisfied he has done his utmost towards doing himself and the stallion owner justice; then second, the indifferent breeder who never gives the business a second thought on the plea that if he gets no colts he does not need to pay any insurance. In Scotland when a breeder takes his mare for service he generally has to pay one-third or two-fifths of his in-

Horses Kicking in the Stable.

In our issue of Feb. 4 a subscriber writes asking for information regarding horses kicking in the stable. A few readers have been good enough to give their experience, and accompany it with some advice regarding breaking horses of this troublesome habit :

Editor "The Farmer's Advocate" :

I see in your issue of February 4 a request for a means of making a horse stop kicking the partitions in the stable. The cure which I suggest may be looked on as a joke, or many may consider it too stringent. However, the plan proved successful in the case of a mare which stood in our own stable and wore out the better part of a six-inch-square oak post which was the A strong bag was end of her stall partition. hung from the ceiling behind the stall within nice kicking distance. This bag was filled with nice kicking distance. straw as padding, and, in our case, weighted with boat ballast, which consisted of lead sewed up in canvas, the ballast was carefully placed in the middle of the packing so that the mare could not possibly be injured. When the animal commenced kicking she set the bag swinging, and the return swing, which allowed the bag, which weighed about 300 pounds, to strike her full in the quarter, soon tired her of kicking in the stall.

Toronto.



Advocate'': In reference to your inquiry for remedy for horses kicking in the stall, I may say I have a heavy mare which gave me a great deal of trouble from kicking in the stall. Having tried both short and long stall with no success, I then strapped below her fetlock a piece of logging chain 18 inches long, using one on each leg. In two weeks I had this mare

. . . .

Editor "The Farmer's

A. B. C.

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This is not an estimate, but an actual cost, representing actual operations. I believe that the rate per hour figures to a little less than horse-hour is ordinarily estimated at. This may be accounted for by the fact that I think we have obtained on the average more work per horse than is usually gotten out of a horse in a year. If you divide 29 into 45,503, you will find you have obtained 1,569 hours per horse, or an average of about 157 days per year per horse, which I am inclined to think is higher than the average. On the other hand, there are only 29 horses figured in the hours spent, while we actually fed 30 horses; the extra horse being the foreman's horse, which was used in connection with the work, which was not charged up in the hours. Still the feed bill includes the feed of this horse, and, therefore, the rate per hour will cover his work, but it would have a tendency to make the rate higher rather than lower. Whatever this rate may be I am not seeking to defend it, neither am I seeking to establish a rate. Our rate next year may be considerably higher. If feed keeps high in price, it is likely to be. On the other hand, if we can economize in labor, it may be lower, and this is where the value of these records come in. Knowing the extra high prices of iced and knowing where we stand, our hours this year and what determined the price per hour, we may be able to arrange our work so as to get even more hours per horse next year. Neither do I say that this is a safe rate for any farmer to charge for his horse hours: I am merely stating that we have for the first time adopted a system which I think has given us accurate information regarding our cost of horsehours. I an merely telling you what we have found out. I would like to know what others have found out regarding the same thing.

Following is a conv of the record sheets we use to obtain the information I refer to, taken from our record for the week ending August 1 :



Adbolton St. Mary.

Best Hackney in hand at the Highland and Agricultural Society Show at Hawick, Scotland, 1914.

surance at_time of service. By so taxing him the owner of the stallion takes the best precautionary measure, that if the mare comes round she will be promptly returned to his horse or forfeit the insurance paid. They have also Farmers' Societies which pay a premium for a horse to sire a limited number of mares, thus making sure of his service. If the stallion owners of Canada were to adopt these methods, would it not tend to bring horse breeding to a higher level. How many districts are lacking in good horses from the deplorable fact that it is all on the breeder's side of the argument, and men cannot be found to invest considerable money on the plea that they have too big a rick to run. Might I suggest that the managements of fall fairs cooperate with the Government on this important question, and have premium classes whereby the breeder can get a chance of having a good horse in his district, and at the same time give the stallion owner a chance if he has the right kind of horse. MAGREGOR.

York Co., Ont.

completely cured, with no injury to her legs. J. F. McGREGOR.

Middlesex Co., Ont * * * *

Editor "The Farmer's Advocate'':

I herewith give you a remedy for horses kicking in the stable, as I have had experience with it and I have used it for a number of years. Get a piece of chain about six links long, and put a hame strap through it and buckle

it to the horse's fetlock, and if it kicks with both feet use a chain on both feet. Put on a fairly heavy chain, and you will find this very effective on any kicker.

Grey Co., Ont.

GEO. WHITMORE.

Editor "The Farmer's Advocate":

I saw in a recent issue your invitation to write regarding horses kicking in stable. And strictly advise doing away with rope or chain, as an animal might easily be conquered by a more simple method. Take a short piece of **trace** chain about a foot long. Get a hame strap and run it through the link in one end of chain and buckle it around the hind leg near the fetlock joint. Every time the animal kicks he punishes himself, as the chain will either wrap around the leg he is kicking with or it will swing and hit the leg he is standing on. A few times will do hinf, as he finds that he will not receive punishment unless he kicks. This will generally break the worst of kickers. If he is inclined to paw

place the chain on the fore leg. I would not advise whipping as this tends to excite the other horses in the stable, and unless you catch him in the act it will spoil your horse. There are more horses spoiled in breaking of habits by whipping than are cured. I have used the chain on a bad kicker, and a week cured him. The animal might try his old tricks after taking the chain off, and if he does put it on him again for a day; he will soon find out it pays to be good. And I find out that there ist nothing will break an animal of bad habits quicker than placing on him an appliance so that he may punish himself. This holds good in halter breakers, balky horses horses not wanting to stand, rolling in stall, etc. Of course one must use a rope in the latter cases, placed in different positions according to the habit you wish to break the horse off. W. G. M. Dufferin Co., VOnt.

* * * *

Editor "The Farmer's Advocate":

As a means of breaking a horse from kicking in the stable, take a strap and put it around the neck to fit like a collar with a loose ring on the bottom. Then place a surcingle on the horse with a loose ring on the bottom of it, then take a rope long enough to place on the fetlock of one foot, carry it forward through the ring on the surcingle, also through the ring on the strap around the neck, and then back through the ring again on the surcingle to the other fetlock. Also tie the strap which is around the neck to the top of the surcingle so that when the horse drops his head the collar stays in its place.

R. H. IVEY. Haldimand Co., Ont.

LIVE STOCK.

Young Pigs Before Weaning. Editor "The Farmer's Advocate"

When young pigs are farrowed an attendant should be on hand to see that everything goes well. If the pigs are strong and the sow lies quiet it is better not to interfere. Sows that have been properly fed and given sufficient exercise seldom have difficultiy in farrowing. If the pigs are somewhat weak or if the sow is very restless it is safer to place the young pigs in a well-bedded box or basket to keep them out of the way until all are delivered. If the pen is chilly a bottle of hot water should be placed in the bottom of the basket and covered with a blanket, with another blanket over the top of the basket. This will help keep up the vitality of the pigs. The young pigs should be placed to the teat as soon as possible. The weaker the pigs, or the colder the pen, the more important an early nurse of the mother's milk becomes. If parturition is not unduly protracted and if the pigs are strong and lively, they may wait until are farrowed for their first feed. But in such matters the attendant must use his judgment In cases of difficult parturition a pig that is apparently lifeless may often be revived by opening its mouth and blowing into it. To be successful this operation must be performed as soon as it is farrowed. A chilled pig is sometimes revived by immersing up to the neck in water heated to a temperature of about ninety-eight degrees. When removed from the water it should be rubbed dry, and induced to suck if possible. As soon as the sow appears to have settl d down quietly it is best to put the little pigs with her and leave them together. It is well not to interfere except when it is absolutely necessary. By the time the pigs are about three weeks old they will have learned to eat. If at all possible it is a good plan to give them access to an other pen in which is kept a small trough. Here they can be fed a little skim-milk with a very little middlings stirred into it. The quantity of middlings can be increased gradually as the pigs grow older. If they can be taught to nibble at sugar beets or mangels during this time, so much the better. A small amount of soaked whole corn, or aimost any other grain, scattered on the floor of the pen will cause them to take exercise while hunting for it. If it is not possible to provide an extra pen the sow may be shut out while the pigs are being fed. Many people simply fed separately. It is very important that young Ont. Con. Cost.

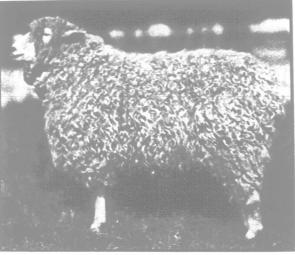
THE FARMER'S ADVOCATE.

A New Method of Curing Meat. Editor "The Farmer's Advocate":

I have read with a good deal of interest an paper on "Butchering and Meat Curing at Any Season." Mr. Carter's plan of butchering article by Eslie Carter in a recent issue of your pears to me to be a very good one, but I would suppose that meat cured as he suggests would absorb a great deal of salt, and consequently would, unless previously soaked, be very salty to the taste when cooked. However, as I have not tried Mr. Carter's plan, nor have I leaten meat cured in this way, I would not venture to say that his plan is not a good one. Here is the way we keep our meat through the summer, and find it so satisfactory that I would not care to go back to the old method.

Unlike Mr. Carter we do not butcher when it is "90 degrees in the shade," but always kill enough in the early spring to do us until the cool weather comes in the fall. Our method of butchering and dressing the pig is much the same as Mr. Carter's, except that we do not cut the meat up until the following morning after the butchering is done. This allows the meat to cool and harden, consequently it cuts up much nicer than it would before the animal heat is all out.

When the meat is cut up it is dusted 'lightly with pepper and rubbed with a very little salt, just enough to make it salt enough for eating, placed in a tub and allowed to drain for two or three days. At the end of that time we take it up, cut it in slices, cut off the rind and fry it using ordinary frying pans, but being careful not to cover it while cooking, as the steam if kept covered might cause sufficient moisture to cause the meat to spoil. We do not fry it hard, but just lightly brown on one side, then turn it over and brown on the other. As it is cooked it is taken from the pan, and placed in layers in



Lincoln Ewe.

Champion at Toronto and London Exhibited by FOUNDED 1866

Peter, Use the Axe.

Editor "The Farmer's Advocate" I see by the last issue of "The Farmer's Ad-

vocate" that Peter McArthur is having trouble with his corn stalks; why don't he take the axe and chop them in two or three and then he can get them in the manger, or do as I did 35 years ago, get a hard-wood plank 14 inches wide and as long as the corn, and set it on two blocks or put legs under it', and then bore four holes, two on each side of the plank near the centre, and put eight-inch pins in the same. Then take an armful of corn and lay it on the plank between the pins and take a sharp axe (broad axe best) and cut any length you want it. It will drop on the floor as you clip it off, and when you have enough cut take your chaff basket and carry it to the cows and you will have no corn stalks to bother you in the manure. Where was Peter's dog when he had such trouble with the cows? If he had mine he would not need to go from the barn, just say, "Rover, bring the cows up from the orchard," and they would soon be at the stable.

Bruce Co., Ont. ALEX GOLLARD.

THE FARM.

Weight of Hay in a Mow.

Editor "The Farmer's Advocate"

In your issue of Jan. 28 there is an item asking any of your readers to give their experience with regard to the weight of hay in a mow, from my experience it is as follows: should say at the outset that Mr. Angle, from Norfolk Co., Ont., knows something about the weight of hay. With regard to that particular mow of hay 24 feet by 13 feet by 10 feet, I should make it 24 by 13 by 10 equals 3,120 cubic feet, and the estimate I have always understood, when well pressed down was 500 cubic feet to the ton, this would give 6.24 tons. I have seen considerable hay bought and sold, and when pressed down in the mow, or having settled for some time in a stack, after the top was taken off in either case by careful measurements, multiply the length by the breadth, then by the depth, and divide by 500, and I feel satisfied no one will have suffered by the transaction. Now, I do not wish to be misunderstood in this matter. If any one was buying hay from the top, or near to the top of a mow, where the pressure had not settled well, it would take more than 500 cubic feet to the ton, while down at the bottom where it had got well settled down it would not take perhaps more than 450 feet for a ton. I can assure you it would not pay one to weigh out very much hay with the old-fashioned "steel-yards," in these times of scarcity of help. In my boyhood days, my father had a set that would weigh as much as 640 pounds on one side, and 160 on the other side, and they were very seldom at home, people came from far and near to get them to weigh But those days are hay, and even their pork. past and gone, as platform scales, have sent old-fashioned steel-yards to the scrap heap, however, I trust these few lines will help some who may wish to buy large quantities of hay in bulk, and bear out Mr. Angle in his theories, of how many feet are required for a ton of hay (not pressed).

FEBRUAR

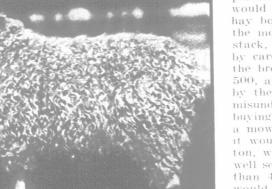
never had a tend to. apart, but and it is ve from this la The expense lumber for crete and n Prince Ed

Tw Editor "Th

Request 'cate'' of perience ir will comply ing so wish ports which past of im ings in diff sider a mo in fact I h with them verbiage. would be issues for of the fall cases, prev your colum best of the

Pending

of our nov er's Advoc production ing plans work of fo to the bro but it' wil propose st of operatio inevitable cereal thr feeding pi perience, great esse bills for i after weel the applic touch of laborious crick." year a st disagreeal manure d to observ nected wi ment stat rather de that by t T. Shutt Ottawa, manure sistently under rea the loss vard soc plication correctly applying grain cr manure g rotted m ting mar is some t ly warra one that fodder a is time where cr lowing s no extra and the most are trict from has beer not enou regularly in the so make a barn, bu the only ing hac winter's course, f ferred to produced Practica two, and so. Th the erect of old secured hind the hay say ing dow suffer fo vorsolv +



G. Lethbridge, Glencoe. Ont.

the vessels in which it is to be kept (glazed crocks are good, or 20-pound wooden lard pails will do very nicely to keep it in).

As the fat gathers in the pans, we pour it off into a vessel, kept on the stove for that purpose, and keep it in a liquid form until we are ready to use it. We usually put the sides, hams and shoulders each into a separate vessel, or vessels as the case may be, then when finished we label them, so we know just what we are getting out. When the vessels are full lay a plate over each and put a weight on it to pack the meat down solid, then pour over the melted fat until it comes up almost to the top of the meal, and set it in a cool place to harden. When it has hardened take off the weight and the plate, and pour over more melted fat until it is about two inches deep over the top of the meat. Again sot aside to harden, and when thoroughly cooled tie thick papers over the top and put away in a cool, dark place; a dark closet upstairs is better than a cellar to keep it in, as it is not so likely to acquire a moldy taste. When you want to use it simply take a fork and dig it out of the lard. Of course a good deal of lard will come with it, but let what does melt in the pan and pour it back on again and tie up as before. Do not cook the meat any more but just heat it thoroughly, in front of a platter of golden brown ham with fried ceas on the side you will feel amply repaid for the little extra trouble it was to cook it ment in this way for a number of years, and have never had any spoil; so I feel that I can beartily

HYACINTH.

Yours very truly, P. MACFARLANE. N. S

Continuous Door for Silo.

Editor "The Farmer's Advocate"

What we consider one of the best features of our concrete silo is the continuous doorway. The doors of the silo, as usually built, are holes about two feet square, and are placed one above the other about every five feet. This necessitates pitching a lot of silage up three or four feet before the next doorway is reached. The continuous doorway extends from the floor of the chute to within five feet of the top of the wall. and is two feet in width. It is unnecessary to run the doorway all the way to the top as the silage Across this always settles five feet or more. doorway at intervals of two and a half feet, or at the bottom of each ring, a piece of 2-inch gas pipe four feet long is placed, with the ends bent by a blacksmith to form a short hook. The ends of the barbed wire are twisted into these hooks, so there is but little danger of the gas pipe pulling out. A d-pression of two inches is left at the inner edges of the doorway to receive the doors which are two inches thick. The doors are made of inch lumber doubled and should lap or "break joints" four or five inches on the next They can be made any height desired, the shorter they are the less pitching up you will The gas pipe should not be placed nearer than five inches from the inner edge of the wall. The reason for this is that these gas pipes make a very convenient ladder if they are far enough from the doors to give you toe room. We have

Real Property

never had any other in our chute and don't in-The rungs are perhaps a trifle far apart, but we don't have to go up many steps, and it is very much handier to step into the silo from this ladder than any other we have seen. The expense of the gas pipe and a little extra lumber for doors, is offset by the saving in concrete and material for a ladder. MORRIS HAFF. Prince Edward Co., Ont.

Two Ways to Save Labor.

Editor "The Farmer's Advocate" :

Request was made in "The Farmer's Advo-'cate" of Jan. 21st for suggestions from experience in economizing labor on the farm. I will comply briefly by citing two, but before doing so wish to express my appreciation of the reports which have been appearing in several issues past of important dairy and agricultural gatherings in different parts of Canada. These I consider a most valuable feature of the paper, and in fact I have seen nothing elsewhere to compare with them in completeness and freedom from verbiage. Five times the year's subscription price would be a modest valuation to place upon the issues for January alone. The pressing duties of the farm and distance in the majority of cases, prevent our attending these meetings, but your columns, like a cream separator, make the best of them available while they are fresh.

Pending the arrival of the farm labor policy of our now awakened Governments, "The Farmer's Advocate'' renders the campaign for greater production real and immediate help, by publishing plans whereby two hands may perform the work of four. Many may be tempted to rush into the broad way of exclusive grain farming, but it will prove the pathway of folly, and I propose sticking to live stock as the foundation of operations, doubly so when, after the war, the inevitable collapse comes. Wherever the giant cereal thrives, corn and the silo solve the cattle feeding problem, and the windmill, In my experience, most economically provides the next great essential—water. The wind sends me no bills for its service, but day after day and week after week the mill goes whirling around with the application of a little oil and an occasional touch of the hand, a wonderful release from laborious hand pumping or driving stock to "the The next and for nearly one-half the crick." year a still greater saver of labor of the most disagreeable sort is the plan of applying fresh manure directly upon the fields, which I am glad to observe has the endorsement of farms connected with the agricultural colleges and experiment stations. No more valuable experiment or rather demonstration was ever conducted than that by the late Dr. Wm. Saunders and Prof. F. T. Shutt, at the Central Experimental Farm, Ottawa, showing that pound for pound, green manure was equally valuable as rotted (so persistently favored by some old writers), and that under reasonably fair conditions in no way would the loss of fertility (through heating and farm-(ard soakage) be so small as by immediate ap plication to the land. In fact, if I remember correctly, it was shown by seven years' trials in applying fresh and rotted manure to various grain crops that pound for pound the fresh manure gave remarkably better results than the rotted manure. On behalf of fermenting and rotting manure the advantage of killing weed seeds is some times claimed perhaps more than is really warranted, but the preferable policy is surely one that aims at not having weed seeds in the fodder and manure to destroy. In winter there is time to spread the manure evenly upon fields where crops like corn are to be grown the following season, whereas in spring with little or no extra help available every hour is precious, and the hot weather makes re-loading manure a most arduous and disagreeable task. In the district from whence I write the snow this winter has been continuous and unusually heavy, but not enough to interfere with the manure going regularly to the fairly level fields. Some times in the soft spring weather it may be desirable to make a small, temporary pile not far from the barn, but in many year's experience this has been the only exception, and I would not dream of going back to the old plan of accumulating the winter's manuae in a pile in the yard. Of course, for other dressings other than these referred to (corr, etc.) a portion of the manure produced may be stored or piled till required. Practically it outs the labor of the season in two, and those who once try it continue to do when plans are being made for so. Therefore the erection characteristic stables or the re-construction of old ones, promit the very first point to be secured is sufficiently wide doors and passages bee team to drive through. One dollars of initial cost by cramp hind the stor nay save a for ing down the when space of a stable, and then suffer for it ... fifty years to come. Conersoly the : eges of ample searce begin multiplying like commund interest. ALPHA.

THE FARMER'S ADVOCATE.

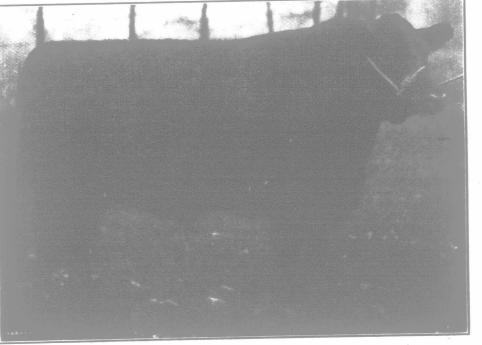
War a Cleanser.

Editor "The Farmer's Advocate":

In one of your editorial notes in a recent number of "The Farmer's Advocate" you say, "Someone has said that war is a great cleanser, how ?'' Taking it for granted that you are looking for an answer and not that you are expressing a disbelief in the statement quoted, I am undertaking to point out, how, in some ways at least, war may act as a cleanser and a renewing agency in society, though in itself it be an undesirable thing.

Our case can best be proved by taking examples from history, ancient and modern, "In Biblical times war was looked upon as an effectual means of bringing a degenerate nation to their senses and to a better mode of life. The elimination of idolatry and some of the other vices of the ancient Jews was finally effected by the reverses which they suffered in battle, and by the general discipline of war. Coming to facts dealing with a later period, we are met with a continual series of reforms due to war, from the time of Alfred the Greaty on through European history until the present time. The war we are now engaged in is no exception to the general England, France and Russia, as we will rule. readily admit, all left something to be desired when we come to judge them from standards of moral character and general efficiency. England was given up as a nation to commercialism, France to pleasure, and Russia to "vodka" drink-What is the result after six months of ing. war? In England this : the spirit of commercialism has given place to ideals of patriotism, national morality, and a sense of the rights of weaker nations and individuals. These ideas are inherent in the Saxon race, but they have been gradually getting into the background, and were in a process of being covered up with the accumulation of years of peace and prosperity. cleansing ordeal was necessary, and I maintain that it has come.

As to France, the situation is well expressed by her Premier, who, speaking in the Chamber of Deputies, recently said, "In this war France has found her soul. Nowhere was it thought that she had such inexhaustible reserves or moral strength as she is now proved to possess. The war has revealed to the world a new France, regenerated, purged of dross, virile, enduring, capable of any sacrifice."



dence. Truly, it would seem that war is some thing of a cleanser.

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The matter appears to me in this light. The civilized portions of the world have for a considerable period been enjoying an amount of commercial prosperity that is almost without precedent in history. And drawing on history for proof, prosperity is one thing that mankind cannot stand up under. His spiritual fibre seems to weaken, and he sinks into the mire of moral and frequently physical debility. When man gets more of the world's goods than he needs, when to struggle for existence is no longer necessary, then he immediately begins to plan for his plea-sure and for a life of ease. "Ill fares the land, to hastening ills a prey, where wealth accumu-lates and men decay." Luxury and degeneration Luxury and degeneration go hand in hand, and this degeneration will continue until some drastic remedy is applied. Such a remedy I believe war to be.

The inevitable result of the world-struggle now in progress must be, in years to come, unimaginable poverty and hardship, for the waste of this war can bring no other result. Man will have to fight for the means of existence as He did in certain former periods of the world's history, the result being that some qualities necessary to perfect manhood, and to a great extent lacking in present-day civilization, will be developed. much to the advantage of humanity in general. If this world is not run by chance entirely, but has some outside controlling force to reckon with, as most of us believe, then I am confident that the "wrath of man" can be turned in the end to his benefit, and war made one of the means whereby he will finally reach his destiny. As things are, and have been for some time, in this old world, I think we will all admit that a cleaning up of some kind is necessary, and if war is not to be the "cleanser" what is?

J. E. MCINTOSH, Glengarry Co., Ont.

Produce More.

Editor "The Farmer's Advocate"

Produce more ! Doubtless a very timely sentiment ! A very appropriate battle-cry for this country, and for every occupation and business in it at the present time ! Perhaps even we may admit, what most of the newspapers seem to think, that this slogan is peculiarly suitable for The farmer himself will scarcely be the farmer. disposed to deny that/ He may indeed reflect, made wise by past experience, that if he does

"produce more there are plenty of other interests waiting to gobble up the lion's share of it, leaving him precious little better off than he was before. And so this exhortation so pointedly and unctiously directed at him from some of those quarters that are indeed "deeply interested" in the notter may not al ways impress him in the most favorable way. But for all that he will not deny that in every view of the situation this is a time to increase production. And there is not a farmer in Ontario or in the Dominion of Canada anywhere who is not willing to try, who is not anxious to do everything in his power to swell the production of the country, and so enlarge the resources and confirm the strength of the Empire. But how? It is easy to tell the farmer to produce more, but how is he to do it? He is no wonder-worker; he has no resources of magic upon which he can fall back, no philosopher's stone with the touch of which he can double his crops. Everything the farmer gets has, in the most literal sense, to be dug out of the earth. And if he is going to produce more, there will have to be more "digging" done in some shape or form. That is something we shall do well to keep in mind.

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Moonstone III.

First cross-bred steer and reserve best steer at Norwich, 1914. Also first at Birmingham.

In the case of Russia the "cleanser" operated more quickly, effectively, and we might say dramatically, than with any other power engaged. The absolute prohibition of the sale of "vodka," and the subsequent successful carrying into effect of the law, was a greater triumph for law and order and morality, in other words for the best there is in Russia's national life, than any victory on the battlefield would have been. From a condition of despair and comparative degradation she has been raised to one of hope and moral progress, and it was war that did it The Czar knew he could never win battles with drunken soldiers. And what of the case of 'our friend the enemy'? We are told that the transformation in Germany is no less noticeable than in other countries affected by the war. It is said that the religious life of the people has been deepened, that immoral plays have been taken off the stage, that books and post-cards that were, to say the least, not very elevating in tone, have been removed from shop windows and that a changed Germany is everywhere in evi-

There are, in fact, just three ways in which the farmer may go about to increase his production:

One, by the application of increased labor. Two, by the application of more intelligent and scientific methods and management. Three, by the application of increased capital.

It is not meant, of course, that these are three entirely independent and exclusive lines of procedure. On the contrary they are closely interdependent. No one can be applied by itself

THE FARMER'S ADVOCATE.

alone. Each one carries with it in actual practice the necessity for some measure of both of the others also. But this division serves to map out the entire field in such a way that we can consider it intelligently, and determine where the chief present difficulty lies, and where also remedial effort may be put forth with best hope of substantial and far-reaching success.

One. The necessity for the application of increased labor in the agriculture of our country will not be disputed on any hand. It can hardly, however, be an increase in the labor of the farmer himself and his family. No doubt there are some lazy farmers. But it may safely be said that they form a negligibly small part of the farming population of this country. All who know the situation know well that the farmers and the farmers' families in this land are working as hard as human beings can work, and keep it up year after year. They know more ; they know that in many cases the farmers and their families are working harder than men and women ought to work. This patriotic zeal for setting other people to work hard that has taken possession of some of our newspapers and other public exhortives is a wonderful thing in its way But as a device for "speeding up "the farmer and getting more production out of him it is foredoomed to failure. In most cases the farmer is 'speeded up'' already, and "going it to the limit.'

The question of hired labor on the farm is for our people as yet one of the unsolved problems It bristles with difficulties. But in the end all these difficulties boil down to one decisive consideration, and that is the financial consideration. When agriculture is in a position to offer wages and conditions of work that are economically desirable, it will very soon begin to secure all the labor it needs. And until it is able to offer these, it will never secure the labor it needs, in spite of all the palliatives and coaxing devices suggested by our arm-chair experts. In the past agriculture has not been able to at all compete in the labor market with the more highly favored manufacturing, commercial and transportation interests. It is not able to do so to-day. The profits in the business will not stand it.

"One other way there remains by which an increase of labor could conceivably be directed to agricultural production, and that is by reducing the size of holdings and so, increasing the number of independent farmers. But here the whole tendency of events is against us. The startling figures of the last Census returns tell us of the wide-spread and serious decline in the rural popu-Lation of older Ontario. The size of holdings is increasing, and the number of farmers instead of growing greater is becoming less. Here again the decisive consideration is the economic one. Agriculture, financially, is not a sufficiently attractive proposition, even to hold its own. The marked rise in prices during the last few years has possibly tended slightly to restore the balance in the right direction. But as a matter of fact a great part of that increase has been absorbed by the middlemen and manufacturers of foods, as distake place. We are still waiting. Individual instances there are undoubtedly of great improvement, of marked advance. But on the whole, on any large scale, on any scale at all commensurate with the prophecies of the optimist, or the expectations of the public, or our own hopes, the advance has not come off, the increase has not been made. We are left wondering about this promise of progress, and asking, "Why tarry the wheels of his chariot?"

Why? The farmers know why. Improved scientific management is a great thing if you have the labor and capital properly to introduce it, and maintain it. It will pay for itself-after a while. In the meantime the question is how to get it a-going. We can all do a little in a small way, and almost every farmer is doing what he can. But the great majority of farmers feel that to launch out in any adequate manner along new and improved lines would quite exceed the resources of labor and capital that they have at command, or that they can on reasonable conditions procure. Pure-bred stock, tile drains, more thorough cultivation, large implements, improved buildings .- these are the things that make for largely increased production, and the absolutely essential prerequisite for them is capital.

Three. Our consideration of these first two points serves to bring us to our third point with something like added emphasis as to its import ance, and with indications that in it may be found the crux of our present difficulty. There would be nothing strange about it if this should prove to be the case. Farming is often praised as a very healthy occupation. It is: but for all that there are not many farmers who are in it for their health. They are engaged in farming for the same reason that other men are engaged in other pursuits-it affords them means of livelihood. It is as the writers on Political Economy say a "gainful occupation," an "economic pur-suit." The farmer wants to live: his occupation The farmer wants to live: his occupation is his livelihood. And in these days he has a right to expect not only to live, but to live well, to prosper in his business. Small wonder then that financial considerations, the economic element should prove to be of critical and decisive importance in the matter.

And there is not only the question of prospective financial returns, but there is the even more urgent question of the initial capital with which to equip the business. And further, as we have already seen, all recent developments, the scarcity of labor, the meed for improved methods and scientific management have greatly emphasized the importance of the part played by capital in agriculture. In these latter years, farming is beginning to be a capitalistic enterprise. Not so many years ago a man could start farming on almost nothing. We all know men who did that and prospered in their undertaking. To-day it is another matter altogether. In the older parts of this Province at least, without very considerable capital in addition to experience and technical knowledge a man is hopelessly handicapped. And further, in proportion as established farmers would improve their methods and extend their operations, the procuring of new capital becomes an immediate and pressing consideration. More capital is the prime necessity of agriculture to-day. Where shall this capital be found? Why should not a productive and remunerative occupa tion like agriculture finance itself ? Why, indeed? According to the figures onoted by C. F. Bailey the Assistant Deputy Minister of Agriculture, in his very interesting and carefully written article in the Christmas Number of "The Farmer's Advocate," the farmers of Ontario in the fall of 1913, had on deposit in the Savings Banks \$100,000,000. Why in the name of all that is reasonable should there be any erv from agriculture for financial assistance? Just before we undertake to answer that ques tion there are one or two other considerations that call for notice. These very interesting figures, pleasant even to look at, are given in the aggregate. But farming after all, is not done in the aggregate. It is done by individual farmers, each on his own particular farm, and each limited to those resources that he is able to gather about himself. Let us look at it from that point of view. The returns from farming are always reasonably sure: but certainly also they are always very moderate. There is nothing dazzling about the divideods that agriculture pays. With careful management and a great deal of the hardest kind of work, farming may be made to pay moderately. Under these circumthe accumulation of extra capital that will perand production will be a very slow business-pannially slow. The chances are that before a and interpreter ade. When a name disciplined in the sense school of farm life reaches fifty years of area, ho is not generally in the humor to take preasely enterprises that mean expansion, and

an increase of work and responsibility. beginning to think not of expansion but of re-He is trenchment, of easing up, of simplifying his interests. The money that through all these past years of slow saving was put in the Savings Bank, because it drew some interest and was readily available for use if wanted, will be left It is an investment that gives its owner there. a minimum of anxiety and trouble. He will leave his money where it is and run the farm in the old way, and as the years advance, on a declining scale. That is the psychology that explains a great part of that \$100,000,000 in the Savings Banks. The money is there all right. It can be counted up in the aggregate, and looks very imposing. But it is owned by individuals, and those individuals not the ones who are most likely to give it active and profitable employment in farming.

In another way also the extremely moderate profits of farming exercise a deterrent influence on the application of capital. The average farmer if he can make things go in tolerable fashion at all on bis own capital is unwilling to borrow. He knows that he will have to pay such a price for his borrowings, such a rate of interest that is, that any extra gain he may make on the employment of the extra capital will be almost absorbed in paying the interest on that capital, leaving him only his extra labor to reward him for his enterprise. At any rate the margin of profit will be so small that he is generally unwilling to assume the added anxiety and risk of making the venture.

And there is a still further element that has to be seriously reckoned with in this connection. The whole organization of the financial world tends, undesignedly perhaps, but none the less truly and powerfully to direct the investment of capital away from agriculture and into commercial, industrial and transportation enterprises. The past century has witnessed an enormous expansion in these last mentioned enterprises. Few people stop to realize how vitally and powerfully this expansion has been aided by the organization of the financial world, by the mere machinery of finance. When with the advent of modern discovery and invention these $\ensuremath{\mathsf{enterprises}}$ began to awaken to new life and activity, the first great want felt was the want of capital. Limitless possibilities seemed to open up before the pioneer captains of industry if only they could get hold of capital. It was to satisfy this call that the devices of the modern financial world were developed. The joint-stock, limited liability company came into existence, with its shares widely distributed, often over practically the whole world, in the hands of any man who has a few dollars saved. The banking system was further developed, stock exchanges and brok-The whole vast and comers' offices multiplied. plicated, but wonderfully effective machinery for gathering up capital and directing it towards profitable investment was gradually perfected.

We have come to see in these latter days how this wonderful financial machinery may some times, in the hands of unscrupulous men, be manil and not good Against that sort of thing, to protect ourselves against the raids of financial buccaneers, we must take such precautions as we can. But we must always remember the enormous economic benefit conferred upon the world by means of this organization. It is perhaps not an exaggeration to say that the great economic advantage accruing to mankind through the mechanical inventions and engines of manufacture is not greater than that which has come by means of these inventions and adaptations in the machinery of But from all this agriculture has received no direct advantage whatever. It has not been able to put itself in shape to benefit by this financial organization. Agricultural enterprise in the form of a joint-stock company, or on any such basis at all does not thrive. - And so far as we can see it never will succeed in that way. It is not that kind of business. And so it comes about that the very means that have been instrumental in directing the flow of capital towards these other enterprises has left agriculture stranded, high and dry. Indeed the very facility with which capital is directed towards these other enterprises has in many instances meant the withdrawal from agriculture of capital that otherwise would have been forced to find occupation there. The financial world indeed, has not yet come to regard agriculture as seriously demanding new capital on any large scale. The theory of banking as developed and practiced in this country goes on the contrary assumption. In an address afterwards published in the form of a pamphlet by one of our most eminent bankers, the theory is deliberately set forth that the branch-bank system is designed to gather up capital the savings of the farmers and others in the rural parts of older Ontario, and to lend it for individual enterrorises in the cities and in the newer parts of the Dominion. The thought of the farmers need ing capital for their own business, never (coulded his mind. So far as the farmer is concerned

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tinguished from the farmer who is the original producer. There has been at any rate, as yet, no appreciable change in the general situation.

Before we can look for any considerable and effective increase in the labor applied to agricultural production, we shall have to have such a re-adjustment of the financial and economic situation as will give a decidedly more favorable balance to the farmer than he has ever yet enjoyed.

Two. Probably what is regarded by the general public as the most hopeful element in situation is the prospect of increased production by means of more intelligent and scientific management. That opinion would seem to be well founded. This is one matter that has been taken up with vigor and intelligence by our Governments, Provincial and Dominion. mass of scientific information in regard to every branch of agriculture gathered together and free iy placed at the disposal of our farmers to-day is little short of marvelous. It is impossible to overestimate the value of this work, sup plemented as it has been and is by the personal efforts of a most capable body of instructors and officials connected with our agricultural colleges and experimental farms, and the Agriculture De further also by a number of ably conducted agri

Let it be recorded too, that the farmers have not failed to respond to this educational propaganda. The interest is keen, widespread, and increasing year by year. There remain, do doubt, many who are still comparatively indifferent. But on the whole we are safe in saving that never before were our farmers so well comped for their work both in the matter of general in telligence and in the possession of speed. I scientific knowledge. They are arbuind by repared, well equipped, in this respect, for a great advance, for a large increase in production. We have been waiting for some years now to see it farming unless y with wh The a

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noticed of capit farmers Savings crippled somethi is not] figures aggrega sonal ci of indiv the wor may be Natural sions is who ha lations money because do with other r strengt the ski ploy it They a easy at On younge Work. want o

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THE FARMER'S ADVOCATE.

cow theory of banking. That indicates the part he is supposed to play in it.

This then, is the situation. Agriculture is nossibilities. The situation of awaking to new possibilities. awaking our Empire also, in this world crisis constitutes an urgent demand for increased production. To fulfil these possibilities, to meet that urgent demand, the pressing need is for a large increase in the amount of capital available, on suitable conditions, for agricultural enterprise. And finally, the present returns from farming, and our present machinery of finance seem utterly incapable of meeting that need.

Four.-And if this be the situation, what do the facts suggest by way of improvement and That is surely obvious enough. We need first of all such readjustments in the financial remedy? and economic situation as will give better returns to the farmer. All enterprise responds wonderfully to the magic touch of prosperity. Let the farmer have a good experience of it and see agriculture expand. Let the general public cease to delude itself any longer with the expectation that the farmer can be permanently beguiled into employing his capital and labor for inadequate profits. That state of affairs will not continue indefinitely. The sooner this is realized, and the sooner a change is made, the better it will be for all parties concerned. Let it be well noted too that better returns to the farmer need not always mean higher prices to the consume ... Better marketing arrangements, co-operative enterprises, transportation and storage facilities, not operated exclusively in the interests of the Railway companies and the middlemen-these are matters that in the interests of both producer and consumer alike demand immediate attention. If scientific production is a good thing why not scientific distribution too-scientific mareeting? And if we wish to relieve agriculture of some of its unfair burdens why should we not insist on scientific-that is economically sound-taxation also?, This if it did not actually give the farmer more, might at least leave him more, which after all is the important matter.

But leaving aside for the time being these important and urgent questions, there is one other matter that cannot be taken hold of too promptly and energetically. The situation calls for some re-arrangement or re-adjustn.ent of our financial machinery, or very probably for the addition of some new parts to that machinery such as will make capital more readily available, in much larger quantity, and on more suitable conditions than at present. Yields in agriculture fluctuate considerably from year to year. We may have a gain due to a special spurt, or to unusually favorable conditions that will seem wonderfully promising, but it is useless to look for any substantial and sustained increase in our agricultural production until we have taken some really effective measures to meet the actual needs of the situation. You cannot dig ditches by talk. You cannot produce more merely by whooping about it in the newspapers and on public platforms. There is no use asking the farmers to "make bricks without straw." You cannot enlarge your

this might conveniently be described as the milch- to get it. What is wrong is that we have made classes together in the relationship of lender and borrower, a relationship that would be not only mutually beneficial to both parties concerned, but would be also in the highest degree advantageous to the general public, would aid greatly in the development of our resources, and add enormously to the wearth and strength of the nation.

To organize a system that would bring these two classes together in this way, giving the horrower cheaper money than at present, and the lender better returns than he now secures as a depositor in a Savings Bank, and on better security too, would no doubt be a task of considerable difficulty. But there is nothing im-possible about it. It is a thoroughly practicable scheme. It has been done elsewhere with most eminent success, under conditions not one whit more favorable than exist here. It has been done, for example, in the German Landschaft or land mortgage bond system, described by C. F. Bailey in the excellent article already referred to in the Christmas Number of "The Farmer's Advocate." In other countries also the same end has been attained more or less effectively by other devices. It has been done; that is the point. It is being done to-day. Why should not we do it, adapting from tried systems and modifying and developing according to our special circumstances and requirements? Why not?

Thrink what it would mean to this country To the depositors of \$100,000,000, instead of 3 per cent. on their money it would mean $3\frac{1}{2}$ or 4per cent. On the other hand try to conceive what 4 per cent. money would mean to hundreds of thousands of our younger farmers in this Province who are only asking for a chance to expand and produce more. Try to conceive the impetus that the whole tremendous business of agriculture would receive, and as a further consequence also, the whole commercial and industerial life of the nation as well. Why should we not put our hand to this thing and carry it through ?

It is scarcely conceivable that serious opposition would come from the chartered banks. They, no doubt, would stand to lose some of the deposits in their savings departments. But any injurious effect from that source would be vastly more than offset by the great increase that undoubtedly would take place in their business, due to the expansion of a revived and greatly strengthened agriculture. Everything that helps agriculture is certain to help every other legitimate interest in the land.

This is not the place nor the time to present detailed plans. They can be produced when they are required. What is needed now is to get our people seized of the main idea. We want constructive leadership, not negative criticism. Mistakes have been made, of course; dangers are to That is the way with everything in this be run. That is the way with everything in tworld. We do not want reckless experiment. do want leadership. Sound, cautious, conservative, but at the same time progressive. We want to go on.

For our leadership where are we to look ? A new Premier has recently taken over the reins of Government in the Province of Ontario, young, alert, ambitious. If he will make this question his own, if he will make his Government the instrument of establishing in this Province a sound system of rural credit suited to the needs, meeting the demands of these new days-that would indeed constitute a real contribution to the prosperity and happiness of his native land. To the honor of high office, it would add the nobler distinction of true service.

the rise in the price of British wheat and that "the squeeze" has been made by the German elements at work in the United States.

Still it was only as recently as 1877 that English wheat was sold as high as 69s-9d per quarter of 480 pounds. During the Crimean war the average price for the whole of 1854 was 72s-5d and in 1855, 74s-8d, but as much as 83s per 480 pounds was paid during several months of both those years. During the Napoleonic wars, the average price of native English wheat was 126s per 480 pounds. In 1813 it was 109s. At one time in 1812, however, it did reach 176s per quarter.

Since Canada has become a factor in the world's wheat growing countries, Britain's prices have enjoyed a long run of normal years. Wheat in the day of 'Lester's Corner' was almost as high as it is to-day but flour was actually 2s to 3s per sack dearer and bread advanced to 8d per the four-pound loaf. Those were peace prices and occurred in a year when United States and Russia were both boasting abundant crops.

Flour at the moment in London, is selling at 46s-6d per 280 pounds and housewives are grumb-Eng. People are blaming the shipping people for the rise all round in the prices of foodstuffs. The shippers say rates have gone up alarmingly. Well, if they have, it would look as if Germany really has got command of the seas even although sha is doing very little beyond slaying babies and hombarding Saxon Ruins! But the Government is going to enquire into things. At the early part of the war, the Government fixed the prices of foodstuffs. The thing seems to have been forgotten and the shippers any having "a dip in. Canadian bacons are selling at 74s to 78s and long Canadian hams realize 72s to 76s. Canadian cheese sells at 84s to 86s for finest, and 82s for undergrades. These prices may be useful for a comparison.

Perhaps, on serious consideration, there is something in the shippers' cry that dearness comes because of the great rise in freight prices, particularly from Argentina. A still more serious contributory cause, it is asserted, is the temporary prohibition of exportation of wheat from Russia, India and Australia. Russia formerly exported 30 million quarters of wheat per annum to the United Kingdom and the Continent. normal times, Australia exported eight million quarters, which was more than we ourselves could grow; but last season's crop in Australia was quite ruined by drought. Thus our sources of supply from without are largely restricted to Canada and the United States.

Throughout the manufacturing districts of England, what wage earners there are left to do work are being well paid for as much work as they can do, and can therefore as well afford to pay the higher prices for their food as any other class. As a matter of fact, ever since the war began there has been appreciably less unemploy ment in the industrial districts of mid and northern England than at this time of the year for many years.

Farmers, who breed remounts and other horses as well as grow corn, naturally remind the people who are pleading for minimum prices for wheat and other products of the land that they are still suffering seriously from the sacrifices they recent made in parting with both men and horses; that they are being requested to add every horse they can to the nation's stock; and that War Office buyers, armed with powers of impressment, might start another national levy, fixing their own prices, any time. As not only wheat but most other clases of grain, as well as meat, potatoes, roots, hay and and most other products for human or straw, animal consumption have gone up and are still ascending, it is admitted that there is a case for enquiry by the Government as to whether they can divert more of the vessels in their possession for importing produce, and thus modify freights. But there is a fear that if, yielding to nopular demands, they overstock the market by attempts to relieve the pressure, the minimum prices fixed might be a poor reward for all the sacrifices that English producers are tring called upon to make. The increase of the wheat area at the recent sowings is officially estimated at 10 per cent. Farmers who were persuaded to add to their wheat acreage say they adopted the advice of the Board of Agriculture and other advisors partly in the belief that good paying prices would be assured them for all they could produce.

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farming activities and increase your production unless you provide means to supply the capital with which to set to work.

The anomalous and, at first sight, discouraging feature of the situation is, as we have already noticed, that if agriculture is starving for want of capital it seems to be starving itself. The farmers of Ontario have \$100,000,000 in the Savings Banks, and yet farming operations are crippled for want of capital. There is surely something wrong somewhere. There is; and it something wrong somewhere. is not hard to say what it is. Let us remind ourselves again of the distinction to be made between figures that are totalled up in the aggregate, the aggregate savings of all the farmers, and the personal circumstances of the hundreds of thousands of individual farmers that are actually engaged in the work of production. The farmers as a whole hay be rich; but all the farmers are not rich. Their circumstances vary between both extremes. Naturally the great bulk of these surplus possessions is in the hands of the older men, the men who have had the time to make the slow accumulations that alone are possible in farming. This money is deposited in the Savings Banks largely because its possessors do not know what else to do with it, b cause on account of age or for some other reason, they do not find in themselves the strength, or the enterprise, or the ambition or the skill that would give them confidence to employ it in extending operations in their own line. They are looking for something comparatively easy and safe.

On the other hand there is the great body of younger men ambitious, enterprising, keen for work, anytods to expand, eager to adopt improved nethods, but who are hampered by want of capital. They have no surplus capital of their own, and they find it impossible to secure capital at reference and on general conditions that would make the undertaking reasonably hopeful of success. The one class has the capital but is unable to use it. The other class could use the capital but is smable on satisfactory conditions "The Pit" at Chicago has been responsible for

EDWARD B. HORNE. Renfrew Co., Ont.

Farming Problems in Great Britain. Editor "The Farmer's Advocate" :

At the moment, English farmers are 'up several problems, just as are houseagainst' holders and others "up against" the rise in the price of foodstuffs, a subject which the Government has promsed to enquire into. The farmer's problems are shortage of labor, consequent upon so many young men having gone to the var, and a shortage also of horses. These will be met however, with Belgian refugee helpers on the farm; by the assistance of child labor, a special dispensation being sought to allow school boys and girls between twelve and fourteen years of age to do their little bit; and by the use of the Canadian mares which are being retained in the country and not sent to War. Many British-bred mares that had gone to the Front and have heard or been under gun fire have been sought out and brought back and are to be sold cheaply to farmers to breed from. This is the outcome of the cry out against so many valuable mares having been sent out of the country in the first rush the Old Country. of troops abroad.

Wheat has soared in England to well nigh sixty shillings per quarter of 504 pounds. It reached 59s and 58s-6d in London and in one or two places in the country just attained 60s and then fell back again. We over here feel sure that affords an opportunity to bring honor and fame

So, arguing things out from all standpoints. everyone should be happy and should smile and pay up!

South Africa has just taken 61 head of Ayr shires from S.W. Scotland, and a host of milking Shorthorns from all over England. Bief cattle in South Africa are also in much demand from

A suitable name for the farm is a great advantage to any farmer but more particularly for the breeder of live stock who wishes to register his animals in the Records of this country. Tt to his efforts and his home.

THE FARMER'S ADVOCATE.

Austra lian News.

Editor "The Farmer's Advocate"

The work of grading the seed wheat by the State Government, of New South Wales, which has undertaken to control this and next year's crop at a fixed price, is now going on. It will be a striking object lesson to the careless farmer who planted anything in years gone by. Though a great number grade, mianure and fallow, there are many who do not do any of these things. It will be interesting to see if they will profit by the practical advice which will be forced upon them. Tests made in Victoria this season showed that graded seed increased the yield by fifteen per cent.

The year 1915 opens strangely. No one is even tolerably sure of their footing. The war has cast its shadow over everything. The changes which are forcing themselves upon the people are creating hardships. There is plenty opportunity here to launch out in the producing arena, but the disturbance is the trouble. When you ask bodies of men to change from one avenue to another the task is stupendous. There is great activity in the wheat districts, and scores are taking up farming as a loop-hole of escape from the dilemma. The State Governments are guaranteeing a fixed price for next season's grain, and bountiful rains have encouraged the enterprise of primary production.

The fruit-growers are wild at the treatment they are receiving from America, and they ask that the duty be increased five-fold to shut out the competition. They say that whereas the consumers here prefer the imported lemons to the local ones, owing to the get-up being better, that the Australian fruit is in turn boycotted on the American market. The excuse for refusing to handle the Australian stuff over there is that there is danger of introducing the fly, but they argue that there is comparatively little fly. It is for the American authorities to answer the charge that they are Trust-ridden, and for the Australian grower to say why it is that the imported fruit is so much better graded than his.

Australia has no practical knowledge of the consumption of horse-flesh, as in the countries of Europe, so it can be imagined what a surprise it was to hear that a company had made application to the authorities for permission to export this commodity-for use amongst the troops at the front. It seems that the application was made on behalf of a breeder who owns a large number of fat horses which are not of much use for ordinary purposes. It is against the law here to offer such food for sale, but 'there does not appear to be any reason why it should not go to those who care to eat it. There is a strong sentiment in Australia against this flesh for food purposes as well as an utter lack of taste, and people here cannot understand how any one could relish such a dish, but it is quite a different story on the Continent. When a horse becomes useless here in the cities he is slaughtered and sent to the Zoo, while in the country he is destroyed and buried with almost as much respect as that accorded a human being. An Australian inventor has added another farm implement to the modern plant which bids fair to create a revolution in farm husbandry It is a sub-soiler, or deep soil cutter, and a trial of it at the Hawkesbury College was witnessed by over 200 representative men of the land. The implement has a U-shaped blade, surrounded by a diamond-shaped frame, to which are attached plow-like handles, and which runs on three wheels. A lever raises or lowers the wheels to regulate the depth of the cutting blade. The latter is set at a particular angle, the effect of which drives it into the ground at starting, and moves along. In the trial six horses were hitched to the sub-solier, which went through the soil at a depth of 18 inches as if it had been cutting cheese, and loosened it, raising the surface a couple of inches. A walking stick afterwards could be readily pushed to the full depth. Shovelling it out, it was found that the soil was thoroughly broken up. With another attachment a drain 9 inches deep was cut and cleaned out in the process, while yet another wing attachment to the blade threw the loosened soil on one side, The implement was afterwards attached to a touble furrow plow, and sub-soiled the land to a depth of 10 inches below the furrow. There is no need to enlarge upon the value of an implement of this sort. Farmers were curprised at its efficiency. The inventor is Mr Hogg, of the Wagga State Parm.

The New South Wales Government is preparing to proceed with the construction of the Warragamba Basin Scheme, which will be the biggest thing in irrigation in the Southern Hemisphere. The water will be used by the City of Sidney and the farmers of Cumberland. The walls of the impounding dam will rise to a height of 275 feet with a length in the widest part of 800 feet This will conserve a total of 102 thousand million gallons of water. A tunnel of five miles in length will be employed to escort the water to It is estimated that the the service mains. scheme will cost £3,000,000. The land to be served is not of a high-class character, but being close to the city it can be very profitably used in the production of foodstuffs for the Metropolis. The science of irrigation is being made more at tractive as a result of the success of other schemes in existence, and the recent 'dry spell which has created great hardships in the farming

J. S. DUNNET Australia

The Experience of Experts With Corn.

Before an audience of corn growers assembled recently at Chatham, Prof. C. A. Zavitz, of the Entario Agricultural College, gave an interesting address on the question of corn for fodder and the silo. Although conditions at Guelph are somewhat different from those which exist in various parts of Ontario, nevertheless by testing different varieties year after year accurately, and in duplicate Prof. Zavitz has been able to arrive at conclusions which in a general way apply to corn growing in Ontario from Essex on the West to Prescott on the East, and Temiskaming on theNorth.

Another factor entering into experimental work with corn is the fact that corn cross-fertilizes and that the result of one year's crossing will very materially affect the results in future years. It is, therefore, necessary to procure new seed each year, as the cross-fertilization does not affect the season's crop further than making some change in the color of the kernels. Prof. Zavitz's words were directed chiefly to results obtained from experiments with the seven different varieties of corn which are being recommended for Ontario, namely, Salzer's North Dakota. White Cap Yellow Dent, Wisconsin No. 7, Compton's Longfellow, Bailey and Golden Glow Each of these varieties has been under test in the Ontario Agricultural College for a number of years along with a large number of other kinds. In these tests all varieties are planted under similar conditions, as to quality of soil. method of planting, date of planting, etc., and the tests were made in duplicate each year. The varieties were all harvested at the same time. and careful notes were taken regarding total yield, yield of ears, stage of maturity, etc.

The following table givs the average results in tons per acre per annum of ears, and of total green crop of the duplicate tests

past five years. The average annual results of which are presented in the following table:

Strain of Corn	Height (inches)	Tons of Ears	Tons of Crop	Size of Ear. (Ozs.)	Days to Tassel	Comparative Maturity
Hammond Zavitz Thomas Dawson Smith	$90 \\ 98 \\ 94 \\ 99 \\ 102$	$3.3 \\ 3.7 \\ 3.5 \\ 3.1 \\ 3.7$	$12.1 \\ 14.9 \\ 14.7 \\ 13.4 \\ 16.4$	7.3 8.0 8.2 7.6 8.5	81 84 85 87 89	92 82 75 63 58

In comparing this table with what has already been said it will be seen that Wisconsin No.7 corn in later than the Smith's strain of White Cap Yellow Dent corn which is the latest of the five different strains of White Cap Yellow Dent, which have been under test at the Ontario Agricultural College. Prof. Zavitz explained the fact that details in corn work must be worked out under existing conditions where it concerns the grower, yet in a general way these tests apply universally throughout the province.

The discussion of the corn question was continued at the same meeting by G. I. Christie, of LaFayette, Ind. Mr. Christie laid particular emphasis on the little attention given to the corn crop, which is of such enormous value to The operations of selecting the proper farmers. cob, testing the seed and preparing it for the planter, were thoroughly discussed in a logical way. The speaker recommended not only selecting the cobs but selecting the kernels by taking a small lap-board and shelling first the tip and butt kernels from the cob, and discarding them for seed purposes. Then shelling the remainder of the corn on the cob into this board where the observer may see at once whether it is good or If it is not likely to grow and give rise to vigorous plants it is discarded altogether, if it is suitable for planting it is then graded into short and long kernels which are used at different times in the planter in order to ensure a more umiform planting of the seed.

Mr. Christie remarked that many growers were seeking to increase their yield by selecting very large cobs of corn, but he denounced this practice as unwise and advocated the medium-sized cob, one which would probably weigh about twelve ounces, was best for his State. In tests which they have conducted in the State of Indiana it was found that the cob of corn which was cylindrical and some what rough in its denting gave an average yield of 50.9 bushels per acre in a test extending over five years. The cylindrical, smooth-dented corn was somewhat lower in yield, amounting to approximately 47.9 bushels per acre. These yields per acre, of course, are not what are expected in Ontario, but from a contest carried on in the State

FEBRUAR

A Farm

Editor "I lt is w of Canadi Patrioti we have news pres greater ni of all ot been stirr and yet i stances, which cor cise and loyalty if

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there wer which cer be encour note of a normal a emphasis he said, to-day is out of it is the ce duction 1 problems cluded, c swine inc ing depa tain in i hogs in down go sows to principle adian to are 'ove profits thrown pect of 1 a profit, operatio Yet ther to reliev produce, that pro farmers the prof at prese hay at and oat from 2 couragei crease in for the bor told number in Marc his coar told the these pr

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of the five of the varieties for the period from of Indiana larger yields are repo 1905 to 1909 inclusive, and for each of six of petitors endeavored to increase their crop peonthe varieties for the period from 1910 to 1914. omically through seed selection and thorough cul-

Varieties Salzer's North Dakota. Smith's White Cap Yellow Dent... Wisconsin No. 7 Compton's Early Longfellow Bailey. Golden Glow

As Wisconsin No. 7 and the Golden Glow were not tested at the College previous to 1907 the results for these varieties are not inserted for the first period, and as the Bailey was dropped in 1912 the results of that variety could not be included for the last period. All seven varieties were under test at the College for six years from 1907 to 1912 inclusive. The following gives the average of twelve years in the six-year period of tons of ears and of tons of green crop per acre per annum. Salzer's North Dakota, 3.7 and 19.5; Smith's White Cap Yellow Dent, 4 and 18; Wisconsin No. 7, 4 and 17.8; Compton's Early, 4.1 and 17.4; Bailey, 3.8 and 16.7; Longiellow, 3.2 and 16, and Golden Glow, 4 and 15.2. The stage of maturity of the different varieties is very important. Very careful notes on this point were taken each year, and, as a result of the six-year test, it was found that the varieties came in the following order in date of maturity, starting with the earliest, Longfellow, Compton's Early, Salzer's North Dakota, Golden Glow Smith's White Cap Yellow Dent, Bailey and Wis-

In order to bring out the character of different strains of the same variety, investigation work was curried on with White Cap Yellow Dent corn secured from five different sources in southwestern Ontario, mostly in Essex County. These five lots were carefully tested in each of the

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The

	Tons	of Ears.	Tons of Total	Green Crop.
1st	Period	2nd Perjod	1st Period	2nd Period
	4.2	3.4	2.02	19.2
	4.7	3.8	19.6	16.3
		3.7		16.3
	4.8	3.7	18.6	15.5
	3.7	3.1	18.2	15.1
	4.4		16.7	
		3.7		13.8

tivation. Following is a table showing the results of a number of contestants who carried on experimental work with corn.

COST OF PRODUCING CORN

Contestants	Yield per acre	Cost per acre, rental, fertilizer, and labor	Cost per hushe ¹
No. 1 No. 2 No. 3 No. 4 No. 34	bus. 110.23 106.65 106.67 100.34 63.83	\$19.36 18.99 20.00 19.52 14.78	cents 17.57 17.81 18.8 19.4 23.2
Average of 34 con- testants	79.46	17.17	21.59
Ten-year average	36.4	13.49	37.1

In this table it will be noticed that the cost per acre for corn in the State in an average test of ten years amounted to \$13.49.

It will be noticed from the table that it costs slightly more to produce a large crop of corn per acre than it does to produce a smell crop. but the cost per bushel is less.

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9 58 A Farmer's Stand in This Conflict. Editor "The Farmer's Advocate"

It is with mingled feelings that the great body of Canadian farmers becomes the audience in the "Patriotism and Production" Campaign. While we have been the object of criticism from the news press of the country for not flocking in greater numbers to the colors, and of the advice of all other classes to produce more, we have been stirred by our own loyalty to the Empire; and yet in the midst of these conflicting circumstances, we think, we understand the difficulties which confront us, as clearly as those who criticise and advise. It is no reflection on our loyalty if we ask, How ?

At the live-stock banquet in Toronto, at which such prominence was given to the perplexing uestions which confront present-day agriculture, there were many practical suggestions made, by which certain phases of agricultural effort might be encouraged and further developed. The keynote of all production, present as well as future, normal as well as increased, was that which was emphasised by J. W. Flavelle, of Toronto, when he said, "The primary instinct of what we do to-day is governed by the profit which we make out of it, whether we be farmers or not." This is the centre from which the fluctuations in production have taken place in the past; the various problems of agricultural production, labor included, centre around this idea. This is why the swine industry for instance, a large food-producing department of farm operations, is so uncertain in its results. The farmers produce bacon hogs in goodly numbers, the supply is increased, down goes the market price, off go the brood sows to the shambles. This is much the same principle which has been illustrated in some Canadian towns and cities not long since. Markets are overloaded or curtailed, demand lessens, profits cease, industries close down, men are thrown out of employment, and when the prospect of running the industries in these centres at a profit, or, at least, at no loss again appears, perations are re-commenced, and not till then. Yet there is a loud appeal to farmers, not only to relieve this unemployment, but to continue to produce, on a larger scale than ever, even if that production is carried on at a loss that most farmers can ill afford. For instance, where is the profit in converting mill-feeds, oats and corn at present prices into pork at \$7.50 per cwt.; or hay at \$16.00 per ton, bran at \$29.00 per ton, and oats at 60 cents per bushel, into butter at from 25 to 28 cents per pound, or what encouragement to stall feed beef cattle when the increase in weight will no more than compensate for the cost of grain used in finishing ? A neighbor told me to-day he had started feeding a number of heavy cattle with a view to shipping in March, but had to change his purpose or lose his coarse feed and labor. Of course, we may be told the circumstances are . extraordinary, that these prices will be better balanced if we produce more largely of the raw materials of the farm, and by increased production and greater supply reduce the cost by reducing the value of raw ma-

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respond loyally in the hour of their country's need, they base part of the success of their calling on the principal "the primary instinct of what we do to-day is governed by the profit we make out of it.'

There is another suggestion our centres of population have to contend with, the difficult problem of unemployment and charity is taxed to its limit. Within and about these cities and towns are large areas held for speculative purposes. We have seen these areas laid off in blocks surrounded by concrete sidewalks, but no building in progress, while war taxes are being talked and levied the suggestion is here offered, that as a war tax, not as single tax, the legislature tax or empower the municipality to tax, during the continuance of the war, at double or triple the rate of adjoining land, all such land capable of producing food that is not actually being built on or broken up and put under crop This will relieve some unemployment, will help feed many hungry from within their own city's borders, and relieve much food otherwise produced to help keep the wolf of starvation from the door of the Empire's homes. Large areas of cultivable land are also held by the Railway ('orporations, and an additional tax for war times on these large areas might stimulate these corporations to lend their great resources to the greater production of a food supply, responsibility for all of which cannot be consistently laid on an overburdened agriculture. C. M. MACFIE.

Middlesex Co., Ont.

Radio-active Fertilizer.

Editor "The Farmer's Advocate":

Radium is one of the rarer elements that a great deal has been written about in recent years. So rare is this element that reliable authorities state that there is not more than 50 grams (28 grams in the ounce) of it or its salts in the world to-day and that it is valued at \$120,000 per gram. It has been used for various purposes; but possibly its use in treating cancer is the one we are most familiar with. In the treatment of this loathsome disease, evidence was obtained that a mild treatment with the radium rays caused a very rapid growth of the cancer. This led to the thought that if it increased the rate of growth of animal tissue, might it not also quicken the growth of plant tissue. It is, of course, evident that radium at \$120,000 per gram would be a very expensive fertilizer, but the idea is that the radio-active residues of the materials from which the radium is extracted may be sufficient value to warrant their use as a fertilizer

At the request of the Minister of Agriculture and accompanied by Mr. Todd, Director of Farms in the Provincial Secretary's Department, it was my privilege to visit the laboratories of the Standard Chemical Company, in the United States, to investigate the claims made for this new material. The material they propose using as a stimulant to plant growth is the residue of the carnotite rock from which the radium was obtained. When it is pointed out that it takes about 400 tons of average rock to produce one gram of radium is evident, not only that there is a great deal of work associated with the preparation of the radium, but, also that there will be a very large volume of the residues. These residues are still quite strongly radio-active and the owners of it are naturally anxious to get some returns from it. It is not claimed that it is a plant food; but that it stimulates the growth of plants, and that, consequently, it can only give good results when applied to soils rich in available plant-food. To insure this the plan is to put it on the market mixed with a good fertilizer. To prove for their own satisfaction that the residue materials are of value, the Standard Chemical Company have spent a good deal of time and money on experiments. Their first work was done in pots in green houses and some very striking results were obtained. Last season very elaborate experiments were carried out on 1-20 and $\frac{1}{4}$ acre plots in the open field. Mest of the common grains and vegetables were included in the experiments. Each experiment consisted of five plots. The same mixture of fertilizer was applied to all five of the rlots and 121, 25, 50, and 100 pounds of the radio-active residue was applied to plots 1, 2, 3, 4, respectively and plot 5 remained without treatment as a check plot. The increased yields of the treated plots over the untreated varied from a small percentage to about 80 per cent, and the average of all the experiments gave a little more than a one-third increase in the yield. A very satisfactory return for the material applied. The largest yield was not always obtained from the largest quantity applied, but 100 pounds appeared to be about the largest amount required. At this rate of application it is claimed the material could be sold at a rate that would leave a handsome profit.

radio-active material will be apparent for several years. But this has not been proven. Dr. H. H. Busly, Columbia University, New York, has also carried out extensive plot experiments with the material and reports large increased yields.

It is, I believe, the intention of the Company to put the radio-active material mixed with a good fertilizer up in small lots and offer it for sale for lawn and garden purposes. Whether there is any virtue in the material only time and experience will tell. But it appeared to be worthy of some experiments and we intend to at once start some experimental work in the green houses and follow it up with field work this coming season. There are at least two points to be settled, first, Will the radio-active residues increase plant growth, and, second, how long will the effect of its application be evident. As with all new products it will be well to go slow and experiment in a small way before buying in any quantity.

PROF. R. HARCOURT. O.A.C., Guelph.

Public Events.

By Peter McArthur.

It seems hard to believe that Sir Thomas Shaughnessy could possibly have given out the interview regarding the railroad policy of Canada that appeared in New York, but as Sir William McKenzie has replied to it the interview is probably authentic. Although I have not an exact copy before me the burden of the interview apparently was that Canada has been reckless in granting assistance to railroad builders, and that now the Federal and Provincial Governments may be embarrassed in making good their lavish guarantees. The statement is entirely true, but this is no time to make it, and it should not have been made in New York where the C. N. R. and the Government may need to borrow money in the near future. "The Farmer's Advocate" protested strongly against the latest guarantees made to the Canadian Northern, and dealt with the methods used to secure those guarantees with vigorous hostility. If Sir Thomas realized that the country was making a mistake he should have used his great influence at that time to check the folly. His present outspokenness suggests sinister motives. He dealt a severe blow to the credit of Canada and the Canadian Northern in the only market in which they can hope It has long been rumored that to float loans. the C. P. R. would not be averse to taking over such parts of the Canadian Northern as would fit into its own system, and allow the government to struggle along with the parts on which it is impossible to make a profit. In view of this it is reasonable to ask if this statement is made for the purpose of so embarrasing the Canadian Northern as to force it into the market. In any case it does not look well for the C. P. R., which is so fat with government bounty that you cannot feel its ribs, to oppose the granting of similar bounty to a rival. The Farmer's Advocate" opposed the rapacity of the Canadian Northern, but not through any love for the C. P. R. When I read of SirThomas' interview I was reminded of the reply made to a public official

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is the result that is always to be faced. Most farmers are now trying to produce the maximum according to their ability, therefore, most of us are seeking knowledge directly or indirectly of most approved methods and of all that is new in agriculture to keep our production at the maximum. Most of us are working 12 to 16 hours a day for 313 days in the year and part of the other 52 to meet, in the best way possible, the demands made on us, and the one fact looms large over all, viz., the instability of the relationship at prices of farm products. This is the serious factor in farm operations.

No doubt more land will be broken from pasture, more grain, corn, potatoes, heans and hay will be produced, and rightly so, but if the live stock and dairy products market continue to bear the same relation to raw products of the farm as at present, then the live stock and dairy larmers of Canada, who have been the strength of Canadian agriculture, will produce at a loss that will be serious, if they value their own raw material, produced on their own farms, at the prices they could receive for them, and this they have a right to do.

This is not a complaint. It is but voicing the difficulty, often uttered before, the farmers have to meet. We realize the part we have in the great Empire whose interests are at stake. We have not withheld our material offerings or our sympathy Rural Canada, according to her ability, is responding equally well with urban Canada to the demands of these strenuous days. We cheerfulld give ourselves in this crisis to the hest we can render, to keep the Old Flag flying as the symbol of human liberty and world democracy; but when the last battle shall have been lought and won, and the nations 'take their places in the effort to recover the waste of war and reflect on its lessons, let us trust that one result for 'anadian agriculture will be the larger conception on the part of other professions and industries, that while the farmers can and do

The claim is made that the germination is quicker and stronger and that the plants in the The claim is also made that the influence of the during this political truce the members of the

by a clerk he was scolding.

"Folks are talking about you," said the chief. "Humph !" said the clerk, "Folks are talking about you, too."

But outside of any effect that his statement may have had on the future of the Canadian Northern it was certainly not patriotic of him to say anything that would injure the credit of Canada at a time when the country is being so severely pressed as a result of the war. But it is perhaps like looking for figs on thistles to look for patriotism in a certain class of Canadian millionaires.

Parliament is now in session, and everything is running so smoothly that it fairly takes ones breath away. The Government makes a proposal, the Opposition assents, and it goes through so quicily that we have no chance to find out what it is all about. It may certainly be said of our representatives just now that

"When they are unanimous Their unanimity is wonderful !"

It would never do to make any objection when public business is being transacted so rapidly at a time when expedition is necessary, but I cannot refrain from remarking that the unanimity being shown reveals a further defeat of partisan The Government supporters have Government. been so drilled to defending Government measures that when they do not encounter opposition they have nothing to say. In the same way the Opposition considers its chief duty to be to oppose, and when opposition is forbidden it has nothing to say. The result is that there is no discussion of any kind. Friendly discussion would help to prevent hasty and insufficiently considered legislation, and members of all parties should feel themselves free to offer helpful suggestions. As the business of the country is being conducted

THE FARMER'S ADVOCATE.

cabinet are practically wielding absolute power without checks of any kind, and that is dangerous, no matter how well-intentioned they may be. Surely the members on the Government side can discuss matters without always being on the defensive, and members of the Opposition can offer opinions without always opposing. At a time when our representatives should be giving us the benefit of their best and sincerest thought they are all silent. It wonder how long this strange silence will last. It seems to me somewhat ominous, somewhat like

"The strange silence that before a storm

Shakes the forest leaves without a breath."

The present mysterious silence suggests deals and other arrangements that are always dangerous to the public welfare. I hate to seem suspicious, but long experience of the ways of politicans makes me doubt their goodness when they are too good. It is too much like the wonderful good behavior of children just before Christmas. And while the politicans are being so "very, very good" a lot of the party parents are being "horrid." It strikes me that this is a time for "watchful waiting" on the part of ordinary citizens.

* * * *

This week someone sent me the following clipping :

"The Bank Baiters should have an illuminated poster pasted on their editorial walls, to this effect.

THE BANKS SAVED CANADA.

If they (the Baiters) do not admit that the Banks Saved Canada, we will be glad to send particulars, on receipt of a post card if, indeed, they desire such particulars as to the true state of affairs."

Unfortunately he did not send me the name of the paper, and I cannot write for this wonderful information. I have a fairly well-grounded opinion that the Government saved the banks, and that they are not responding in the publicspirited way we have a right to expert, but if there is another side to the story I should like to know it. If I knew the name of the paper that published this paragraph I would not only ask the editor to send me his inside information, but also to tell me his age, the color of his eyes and send me a lock of his hair, and I would read his fortune for him.

THE DAIRY.

The Male Calves of the Dairy. Editor "The Farmer's Advocate":

Our last article treated of the general points in feeding and rearing dairy calves. In this we shall discuss the question of male calves on the dairy farm. It is often a problem to know what to do with this class of stock. Pure-bred, we do not like to sacrifice to the butcher, yet there is no assured remunerative market for Among the smaller dairy breeds it does these. not pay, as a rule, to make beef of the bull calves. Those who have animals belonging to one of the larger dairy breeds claim that it pays to raise the steers for beef, especially in the case of grade Shorthorn cows, bred, say to a Holstein bull. We have seen some very good fat steers, bred in this way. Right or wrong, there is a prejudice in the minds of dealers against dairybred stock for beefing purposes. We attended an auction sale of dairy stock recently, where a number of the ring-side spectators were dealers in stockers and fat cattle. It was amusing to hear some of the comments on the stock offered— "Rats," "Cats," "Goats," "Pick him up and carry him around the ring," etc., were expressions used by these men.

the owner. (Readers will please bear in mind that we are discussing this question from a dairy farmer's standpoint, not that of a beef farmer). The advantages of this plan, especially when handling male calves dropped during the winter are—it saves the risk involved in castration, lessens the labor for the summer, and allows more feed and time for proper feeding and care of the milk cows and females to be reared as future milkers.

Some follow the plan of allowing the veal calves to suck their dams until ready to sell. As pointed out previously, this is not a good method for developing the milking qualities of the cow, although it is probably all right for the veal calf, and where a cow will "mother" one calf after another as soon as fat, men who have tried it, claim that a cow will make more money raising calves than can be got for her milk or cream, and the owner is saved the labor of milking the cow and caring for the milk or cream.

As a rule, however, it is better to remove the veal calf from the dam in one to three days and hand feed on whole milk for at least one to three weeks-better new milk for the whole fattening period if the milk is cheap and can be spared, and the calf likely to make a profitable use of the milk. Warm, sweet, skim-milk may be used at the end of one week, to gradually replace the whole milk and some ground faxseed may be added to replace the fat or cream removed by the separator. A calf fed in this way ought to gain 11 to 2 lbs. or more daily. Assuming that the calf weighed 80 lbs. when dropped and gained 11 Ibs. daily for six weeks, selling at that time for 10 cents per lb., we have, 80 gain of 63 lbs. =143 If s. @ 10c,=\$14.30. As previously stated, it is doubtful whether such a calf will at any future time make more profit to the owner. It is but fair to point out that if this calf were fed on whole milk during the whole period and milk were worth \$2,00 per 100 lbs., there would be no profit, because the calf would probably consume 20 fbs. (2 gallons) daily, which would be 840 lbs. in six weeks, which at \$2 per 100 lbs. =\$16.80-a loss of \$2.50. It is because of this that in winter it is seldom profitable to feed a calf for any length of time on whole or new milk. For the first week after freshening the cow's milk is more or less abnormal and decidedly so, for at least four days, hence the new milk for this period may be given to the calf ; after that, its profitable use for vealing purposes is doubtful.

One other phase of the question may be discussed briefly. How shall we best rear male calves which are pure-bred and are likely to prove profitable dairy bulls for heads of herds? At this point many of my readers are likely to disagree with what I am about to write. On the one hand we have the demand of buyers who like to see a fat, sleek, nice-appearing male calf; and many owners and sellers pride themselves on always having their stock in "show condition." On the other hand, we have the experience of a growing number of purchasers of dairy bulls, which have proved to be more or less impotentnot sure-getters. After a man has paid, in some cases a fairly "long" price for a bull, either young or mature, and then finds the females bred to him are not getting in calf it makes him feel sore, as it is a serious loss-not only in the price paid for the bull, but far more serious in loss of young stock and milk. The owner is compelled to do one of three things : buy another bull, which the small breeder cannot afford to do; use an inferior sire; or carry a number of dry females in the hope that eventually they will get in calf. This is an important matter which deserves the careful attention of all breeders of pure-bred dairy stock, and especially of those who are making a specialty of breeding and rearing bulls for sale. This ought to be a profitable line of work for men with capital and who appear to have a special gift in the selection and mating of dairy animals. The causes of sterility among dairy bulls are probably many, but one or two common causes we shall mention. First, the feeding of too much starchy and fatty foods that give a nice appearance to the animal, but we believe are more or less injurious to the reproductive organs. More of the muscle-forming or proteid little oil-cake (not the ground flaxseed) with a few roots after the skim-milk period of feeding to keep the howels loose, would be better than feeding foods like corn or corn silage, barley, and flax, which are chiefly foods of a fattening natury. Grow more bone and muscle and less fat The second probable cause, is lack of exercise for the data while carrying the focus or calf, and lack of exercise for the young bull calf and even after it is more or less mature. The hot-house hull, no matter how well he may be bred, is likels to prove a disappointment to the breeder and to the purchaser. If the breeding is right, better how an animal that is a little rough in form and coal, rather than a fat, sleek, im-

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About Dairy Utensils.

Editor "The Farmer's Advocate":

I have read with a great deal of interest the article in your paper, by H. H. Dean on the "Creaming of Milk." But in the gne in the January 14 issue, I think he made one mistake. He says, "On the whole we prefer the tin pan pressed from block tin." I very much doubt if Mr. Dean ever saw such a pan, or if there was ever such a pan made, as it is too soft a material for pans. Pressed tinware, or more properly speaking tinned ware, is made from sheet iron, or sometimes from mild steel, and coated all over with tin to keep it from rusting. New Ontario. GEO. SWITZER.

New Ontario. GEO. SWITZER. Tinware in this country is nearly all madfrom tinned iron, but occasionally from tinned copper. When we speak of "tinware," 'tin pans," 'tin pails," etc., we always refer to iron which has a more or less thickness of tin coated over the iron. This is what was referred to in the article on shallow pans for creaming milk, which are stamped from these squares or blocks of tinned material, instead of being made from two or more pieces, soldered at the seam. We were not referring to the pure metal tin.

H. H. DEAN.

HORTICULTURE.

Growing Young Tomato Plants for Early Use.

Editor "The Farmer's Advocate" :

One of the most interesting parts of our farm work has been the growing of small stuff, and particularly tomato plants. There is all the rush and niceity in it, that there is in conducting a factory contract that must be completed on a time limit. For the plants must be built on time and ready by a certain date. You must not start too soon, the date to start your contract is fixed; Nature says just when and no sooner, for if your plants are too large they are too expensive, or, as a merchant would say. "your overhead charges will be so large that profit is cut down too much."

Last season was an extra bright season, and rushed the plants a little too fast. We prepared our foundation, if you like, on the second of March by getting our fires on in the small cold frame (a cut of which appeared in "The Farmer's Advocate" a short time ago). We mixed up two trays of earth, using 3 parts surface soil. 1 part rotted manure, and 1 part leaf mold. We sifted this fine to plant our seeds in. Sifting is necessary because the young seedling's roots will take hold of sticks and stones in this and will be torn and lacerated, possibly doing serious damage to many individual plants.

Previous to putting the seed in the soil we make sure the soil is moist enough all the way through. If it is dry we pour on water and mix it as we would a batch of cement, turning it over and over. The ground is in right condition can take handful and it will just hold together and no more. We use good seed, and even though it costs more the results warrant the price. We got our tomato seed from a firm in New York State. It is a strain they select specially, known as the Northern Aderondach No. 3, and for which we pay \$3.00 per ounce. These seeds are plump and full, the fruit is smooth, even, flat, and has a large portion of pulp. The fruit consequently is firm and stands up well under shipment. It also slices better and has a very pretty pattern, showing the hard pulp part up very plainly in contrast to the bright red of the softer pulp, and that is the contract the truck man has to meet. The public is the other party to your contract, and they de mand a higher percentage of firm pulp, less seed and water, and a smoother fruit than the general stamp of tomato. Since our contract is run on time and nature can't be persuaded to alter the dates we must rush our construction, for the plants must be in flower by the 18th of May and ready for the field should the weather permit, hence we must be at it by the first week of March, with less than three months in which to build our plants. With the seed soil ready we fill two or three trays or shallow hoxes 12 by 24 by 6 made of inch' surface wood. Put the surface side in so the roots cannot get hold of the slivers on the rough surface and level it off. then with a stick the width of the tray and about the thickness of a lath we press the soil in a number of V-shaped troughs and spread the seed evenly in these. The seed should not be buried deeply, that is not over one-half inch. We just take a handful of soil and pour it over the seeds.

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after wate caking of bake, and wise to co old sack t baking and ly, because first tran off. As s warm wat seeds, such more than late germi they need will get b about 80 thermomet have a g easily, but keep the t grow good come out through th to a grea baking th

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We use growth, plied in crystals plants af the soda them. 7 plants, and sprin must ma burning gallon o advisable British

Probably, because of this, some dairymen are turning their attention to the "dual-purpose" brads, more particularly the dairy Shorthorn, which in the opinion of many will solve the problem of what to do with the male calves on the dairy farm, especially since the rise in the price of beef. However, the writer's advice, if it were asked, would be to go slow before making 'a change in the right class of stock on 'our dairy farms. Pope's advice is very good at this point:

"Be not the first by whom the new is tried. Nor yet the last to lay the old aside "

Speaking generally, we believe the best plan to make profit out of dairy male calves is reveal the calves and sell them when 4 to 6 or 8 weeks old. At the present time vents are worth is to it cears a pound, and there is never a time where so much profit can be made from dairy makes as when sold under two month? old. We have a good deal from recople who do not us descard dairs furm conditions, about the reset where a sol from recople who do not us descard dairs furm conditions, about the reset where a sol or bits even a dairy former's they old, such animals gold young are likely to make nost many for

H. H. DEAN.

No plant can get a "foothold" unless the soil is firmly packed about its roots, hence it 'is necessary to press the soil down tightly about the seeds (and in transplanting tightly about the plant's roots). To press it about the seeds we

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use a brick or a piece off the end of a 2 by 4, and press it down pretty tightly. Then over the and prover the surface we sprinkle a light layer of sand. This is to prevent the surface from becoming sloppy after watering, thus effectively forestalling the caking of the soil, which would, if not prevented bake, and then smother the seedlings. It is wise to cover the trays with a piece of paper or old sack to still further prevent the possibility of haking and also to get out of watering irequently, because the fewer waterings they get till the first transplanting the less danger of damping As soon as the seeds are in, we water with warm water, not boiling as is done with some seeds, such as egg plant, but it also should have more than the chill taken off. This will stimulate germination, and as we are on a time limit they need pushing. Place the trays where they will get bottom heat, and in a temperature of about 80 in the day and 75 at night. Keep the thermometer down close to the trays. If you have a green-house you can control the heat easily, but with hot beds it is more difficult to keep the temperature even, yet it is possible to grow good plants, and there are many Sne plants come out of beds. After the plants are up, go through the rows with a table fork and stir, not to a great depth, the surface, to prevent any baking that may have started and also to allow air and heat access to the ground.

In this stage you may have trouble with your plants in the form of damping off, which as a rule, is caused by excessive moisture and impure air. Hence it is better to err in light watering at this time and use it warm. When watering, see that the moisture goes right to the hottom of the trays, for the roots, even of these small plants, if the soil is rich will spread and run all over in a most surprising manner. As soon as the plants show the first true leaves they are ready and should be moved along to the next stage, otherwise the roots will begin to crowd and you will be behind with your contract.

We thought when we were told this the first time that the fellow who told us was decidedly off, but because we had never seen transplanting, except when the plants were about 8 inches high. and we tried it on the seedlings and lost them all. But it was because we didn't know how.

The how is this way: wet the plants the night before transplanting is to be done. This will allow them to fill up on water enough to carry them over till they get a fresh rooting. From this stage on I have given the process in detail in "The Farmer's Advocate" of December 31, page 2245.

We used nitrate of soda to stimulate a quick growth. This comes in crystals and may be applied in two ways, by sprinkling a little of the crystals on the soil, say a teaspoonful to 18 plants after the second transplanting. Never let the soda touch the leaves, for it will destroy them. The soda will dissolve when watering the plants. It may be applied by dissolving in water and sprinkling it on, which is slower, and you must make a weak solution in order to prevent burning of the foliage, say 1 teast conful to a One application is all that is allon of water

THE FARMER'S ADVOCATE.

When and How to Fight San José Scale.

Editor "The Farmer's Advocate"

The old adage, "A stitch in time saves nine, stands more than true in the control of that most destructive of orchard pests, San Jose Whereas the average scale, insect or fungous disease is content with marring fruit, destroying foliage and sapping a modicum of vitality from the tree tissues, San Jose, uncontrolled, makes a finished job of its depredations and kills ruthlessly. Yet there is no reason in the world why its appearance should affright the orchardist. It is easy to identify, and presents no insuperable difficulties in its control. Obser-vation, perseverance, attention to detail. promptness, and line-sulphur are the safeguards of the apple grower.

In spite of the fact that it is more than twenty years since the first Canadian an estor of these little wax-covered Chinese demons stole a ride into Ontario on nursery stock; in spire of the fact that one of the yellowish-brown females no larger than a crumb can act as mother and grandmother to several million of her kind in one season, the pest has progressed no further north than a line drawn from Sarvia to Toronto, and even in the tender fruit districts which it affects as a residence, by no 'means all the orchards are affected. That this is the case affords evidence that in the severity of our winter lies a check to the rapid progress of the enemy, part of whose Latin name, "permiciosus," shows the disfavor with which it is looked upon.

The fact that the climate of Ontario is not all that it should be from the point of view of the pest that has invaded the southern orchards of the Province may be cheerful news to orchardists as a body, but brings no joy to the heart of the fruit-grower who already has the scale well established on his property. He wants to know

commercial mixtures are on the market at reasonable prices, and fair results will attend their use. But the good, old-fashioned lime-sulphur has as yet met no victor. Lime-sulphur, whether home-made or sold commercially, is safe, effective and absolutely dependable. It is warranted, if used at the right strength, at the right time, to leave the trees uninjured and to kill the scale with which it comes in contact.

Some orchardists use gasoline sprayers, scme the less up-to-date barrel outfit. Good work can be don, with either if care be taken that the outfit is in good condition, and that the pump plungers are carefully repacked before the spraying season commences. Though there is some argument as to the most desirable form of nozzle to use, practice has shown the disc nozzle to be as reliable a form as the orchardist can desire. It should be used with a moderately coarse open-

If the whole outfit is working well a high pressure should be obtained-a very important point in dealing with the pest under consideration. Every portion of the tree should be thoroughly drenched till the whole tree from the outermost twig to the c n'ral trunk is dripping with the mixture. Too often the twigs and the undersides of the branches are neglected. Loss of spraying material is ine itable and should cause no anxiety. The cheapest job is seldom the best.

STRENGTH OF THE MIXTURE.

Timidity as to the effects on the tree has so far led growers to use lime-sulphur s' mewhat weaker than is desirable for the best results. Those who know recommend the use of slightly stronger sprays and assure us that no harm has resulted from their use. When using the commercial lime-sulphur, not more than seven gallons of water should be added to one gallon of the liquid. Strength 1.035 will perhaps best meet

all requirements, and no ill effects to the tree have been observed with strength 1.040. When the home-made mixture is used, it should always be tested as to strength by means of a hydrometer.

TIME FOR AND NUMBER OF AP-PLICATIONS.

One application thoroughly applied will usually have the desired effect in the case of any but badly infested trees, but it is far safer to give t w o applications. Even the most expert of sprayers is liable to mlss out spots unknowingly In any case it is best to give the outer twigs a thorough re-



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WALTER M. WRIGHT British Columbia

The Dark, Dark Side Of It.

As the time is approaching to commence work in the orchard again I must say the discussions we have had on spraying and results we have had therefrom do not suit me at all. Let me give you my experience for the last four years with the different kinds of sprays. On the first year we used lime-sulphur for the first spray, and Bordeaux mixture for the second and third. The fruit was 99 per cent. clean. On the second year all three sprays were lime-sulphur, and the fruit was two-thirds clean. On the third year we used lime-sulphur and the fruit was one-half clean. On the fourth year the first spray was lime-sulphur, and the second and third Bordeaux. The results were nearly a failure on account of It should be mentioned, however, that lungus. during the first year we slaked the lime each time we filled the tank. The fourth year it was run of in a trench and measured for each tank. We are constantly hearing the bright side of farming, let us have a few facts about the other side and see if we cannot benefit by them. Norfolk Co., Ont. ROBERT CHAMBERLAIN.

For Forty-five Years.

Editor "The Farmer's Advocate"

I have talent the Advocate for forty-five years. I quit farming none years ago, but I still stick to the paper and I would feel lonesome without it.

JOHN MICHOLLS.

Ontario Collegado



Two Experienced Marketers.

how to get rid of it before a few years leave his trees dry skeletons of their former beauty. The control of San Jose is no longer in the theoretical stage. Much practical investigation by Provincial Entomologist L. Caesar, B. S. A., and his assistants, by the Bureau of Entomology at Washington, D. C., and by various United States Experimental Stations, has given to the orchardist a simple method of effectually ridding his trees of the pest.

PREPARATIONS FOR SPRAYING.

First and foremost to be considered is the preparation of the orchard for spraying, Old. neglected orchards are usually the worst sufferers from, and the most prolific breeding grounds for the scale. The tall tops of old, rough trees should be headed back, dead branches removed, unnecessary boughs pruned out, the tree centres opened to the sun, and the rough bark under which the scale may breed and thrive untouched by the spray mixture, scraped of with a hoe or any other handy instrument. The tree, when pruned, should be low enough to be sprayed economically, and should have every portion open to the free application of the mixture. younger or less-neglected orchards the above advice holds good in so far as in their case such preparation is needed. This lopping, pruning and clearing should be begun not later than the end of February

MATERIAL AND MANNER OF SPRAYING.

Next must be considered the spray material to use, and the manner of applying it. Some good

spraying after the tree has been sprayed. The twigs are perhaps more likely to be missed out by a conscientious expert than by

Excess of zeal leads the hired man in a hurry. to too close an approach to the tree, and though the boughs and branches may be running with the mixture, many of the twigs may remain untouched, as may the underside of the branches. When the time for picking comes the sight may be seen of a tree apparently otherwise free from scale bearing badly-infected fruit. Even when spraving of the twigs has missed none of them, their pubescence or downiness impedes the penetration of the mixture to the scales on the young bark unless considerable force and pressure are applied.

Presuming that the safer course of giving two applications is to be followed, the first spray should be applied as soon as the weather is bright and warm, as will generally be found dur-ing some portions of March. 'Temperatures at or below freezing point do not seem to allow of the best results, though the reason why this should be the case is as yet unknown.

The second application should be given as near as time will permit to the bursting of the buds. In many cases the buds will burst before the entire orchard has been sprayed, but this is no reason to stop spraying. Orchardists as a class are far too timorous about applying the mixture to young foliage. Until the leaves are larger than ten-cent pieces, no harm can result with the strength suggested, at least on apples.

CAUSES OF FAILURE TO GET GOOD RESULTS.

Many conscientious fruit-growers, after reading thus far, will feel inclined to put down the paper

THE FARMER'S ADVOCATE.

with the remark that they tried these remedies last year without success, and to some extent their contention may be correct. Two factors encouraged an abnormal growth of the scale First, in 1914 not found in the average year : heavy rain came soon after spraying and materially decreased the killing power of the lumesulphur through dilution, and, second, warm weather continued so long into the fall of the year that San Jose scale reproduced itself into November. This means that the small amount of scale apparent on an affected tree in September had reached and passed the million mark before another month was over. The mistake in calculating reproduction is often made by farmers and others. "If," says the farmer, "I have one thousand scale insects hatched in one month, I'll have four thousand hatched in four months." The conclusion is entirely wrong. Take one female scale and allow that she produces four hundred young. Allow half of these young, or two hundred, to be female and presume that each of these also produce four hundred young, half of which are female. We will then in two generations have 40,000 female scale insects. These two generations are about the average number for ordinary years, but in 1914 two and a half or even three broods were hatched. The 40,000 females from the one original female gave birth to 8,000,000 young. In other words, one extra brief month of warm weather multiplied the number of scale insects some hundred fold above the average.

The unsuccessful sprayer can console himself with the fact that in 1914 he had to contend with unusual conditions, but he should not lose sight of the possibility that he did not allow for the pubescence of the twigs, and, therefore, neglected to spray these as thoroughly as he might have done. It is advisable, therefore, to take heart, and if at first you don't succeed "try, try again."

Space does not permit the giving of directions These, home-made lime-sulphur making. for which have been given several times in this paper, may also be obtained by applying to the Department of Agriculture for Bulletion 198. Mr Caesar, Provincial Entomologist, O. A. C Guelph, has expressed his willingness to answer all queries that may be put to him concerning control measures for this and other pests. He has also kindly reviewed and approved this article.

O. A. C., Guelph. ANDREW CORY.

Preparing Hot Beds and Cold Frames. A correspondent recently inquired about the difference between hot beds and cold frames, and their advantages. The following may be of

some interest to many of our readers just now : The essential difference between a hot bed and a cold frame is that artificial heat below is

created in the former usually by the use of horse manure. Both require a plentiful supply of rich, mellow earth, preferably black vegetable mould such as that procured from low spots in the bush, or swampy creek bottoms.

and for farm gardening, operations may begin on the hot bed about the end of March. Very satisfactory results have been obtained by sowing seeds from about April 10th to 15th, some a few days later, others like cabbages, which are very hardy, earlier. Celery seeds and very fine flower Just a light seeds should not be covered deeply. sprinkling of mellow, moist mould, being sufficient. Tomatoes, cabbages, etc., can be covered with more soil, but the seeds should not be sown too thickly or the plants will be crowded and spindling. Scatter the seed in a row about an inch broad and have the rows about 31 or 4 inches apart, so that the soil between can be stirred occasionally. Keep the weeds out and the soil and plants moist, using a fine-nozzle sprinkling can as frequently as required to maintain a healthy growth. In three or four weeks tomato plants can be transferred to the cold frame, where they are put far enough apart to give them room to grow till in blossom before finally removing to the open garden from June 10th to 20th. By keeping the soil bottom low down or having a frame made of wider boards greater depth will be secured, necessary in case of tomatoes which grow large before setting outside. In case of both hot beds and cold frames it is well to have several inches clear space between top of plants and the cover

The cold frame is protected with glass like a hot bed, or may be simply covered at night with coarse canvass or cotton to resist frost. The subsoil should be first well forked up, manured and then covered with about 6 or 7 inches of mellow soil or mould. Very early lettuce is easily grown in a small hot bed or cold frame, and putting a layer of horse manure underneath the mould will hurry it along. It is a good plan to put a glass sash over a few hills of rhubarb, applying some extra manure also. In this way lettuce and rhubarb can be ready for the table three or four, weeks before that grown in the usual open way and with very little trouble. Hardy flowers started in -the hot bed can be brought on several weeks ahead of those sown outside. In case of cabbage for farm table, use a few of an early sort, like Early Jersey Wakefield, or a little latter, Early Winningstadt, sown in the hot bed, and a couple of weeks later more for winter like Danish Ball Head. Celery should be transplanted at least once when very small in the hot bed to three or four inches apart and when 4 or 5 inches high to the open trench. With these few hints anyone can start a farm garden hot bed, according to location and needs, and one season's experience will supply additional information bet ter than a whole book of rules. Make a start in a small way.

POULTRY.

Success With Turkeys.

Editor "The Farmer's Advocate"

Each season of the year brings its work on the farm. If there is any slack time we will say the middle February. This is a time we may add a little knowledge to our experience in raising fowl and especially turkeys, as they are the most profitable, in fact they are nearly all profit, not counting the time expended on them. As we have often said, they are beneficial in the number of grasshoppers and other injurious insects they consume, and the grain we feed at fattening time we justly owe them for their good deeds, and I. may say here, thoroughly fattening any kind of poultry intended for market not only increases the weight but greatly improves the appearance and quality, and helps make a demand. It pays well When the little turkeys are hatched the first to break the shell are taken away; so they will not get crushed in the nest, and placed in a warm basket with warm flannel covering near kitchen stove or in sun if not too hot, leaving hen on nest until they are all out. The first food is a little dry bread, rolled oat meal with very little hard-boiled egg chopped fine. Oatmeal with sour milk curds, and a little black pepper is also good with common sting nettle and cammomile chopped fine and mixed with any or all of the food. After two or three days they are able to pick a little for themselves if the weather is They are more tender than chickens and require more attention while young. Lice is one enemy they have which multiply with astonishing rapidity if not checked and tended to from time to time until the birds are large enough to dust and look after themselves. If they have lice, grease under the wing; give lots of ashes to dust in; put them away from the other fowl in a field they cannot get out of easily, preferably a hay field. They need shade from the hot sun, and sour milk to drink agrees with them Keep youn; hirds out of the wet as much as possible Danpuess and filth are two things to be avoided

head, the most critical period is at hand. At that time put tincture of iron, a few drops to a pint in their drinking water two or three times a week if the birds appear droopy or languid, as soon as their heads become covered with red they regain their vigor and alertness. If allowed range and fed once or twice a day they will grow rapidly enough to pay well for the little extra care they require during their tender age. When the cool weather comes and insects are not so easily found, they require extra feeding to get them ready for market. All sizes sell well if well fattened. The laying hens are better not too fat; if too fat during winter they may lay soft-shelled eggs or lay too early. April 1 is plenty soon enough for laying to begin. The first eggs may be set under common hens, the last clutch being given to the turkey hens. The turkey hen makes the best mother, and is better protec tion for them under a shower of rain. WM. EDWARD Lambton Co., Ont.

FOUNDED 1866

Overcome White Diarrhoea.

Editor "The Farmer's Advocate"

Millions of incubator-hatched chicks are raised every year, and thousands of poultrymen are successful who, in spite of the ravages of white diarrhoea, continue to rely upon artificial hatch-ing and brooding. That some means of controlling the disease must be known to insure success will readily be admitted by those who have had experience with its deadly work amongst incubator chickens. Yet many who find poultry keeping on the farm profitable and who desire to increase their flocks by the use of incubators and brooders are stopped, and unable to raise the chicks so hatched, because of difficulties, of which white diarrhoea is the chief; and while it is by no means the only obstacle to success, those who are able to overcome it generally find the other difficulties comparatively easy to vanquish

Although white diarrhoea has been directly responsible for a very large share of the mortality amongst incubator chicks, a study of the conditions of artificial hatching and brooding during the last few years reveals the fact that many large poultry farms are not, and never have been, seriously hampered by it. The losses it has caused have been heaviest among beginners' flocks, and any flocks which for some reason have become low in vitality. During late years the poultry departments of various experiment stations and agricultural colleges of Canada and the United States have been investigating the causes and means of prevention of white diarrhoea, and it is to them we are indebted for locating the bacillus or germ which is directly responsible for the trouble and for giving us the most intelligent methods of keeping it out of our flocks.

It must not be surmised, however, that it is now an easy matter to raise chic ens: that all one has to do to keep them healthy is to put some druggist's preparation in the drinking water or feed according to certain rules. No, indeed; if the investigations in this work have made anything plain at all, it is that more care, and in breeding hatching, feed ing and raising chicks, must be given than has generally been the practice heretofore. In no "What other way can the ailment be prevented. is worth doing is worth doing well." Lacking the broader knowledge which the experiment stations have now gained from years of extensive study of the subject over all the land, many poultry keepers devised ways of their own for checking the spread of white diarrhoea among newly-hatched chicks, a peculiarity of the disease being its rapid dissemination through an entire hatch once its victims number a few. Among these precautions might be mentioned : One, do not let the temperature of the incubator get too high; two. do not let the temperature of the incubator get too low; three, do not give the do not chicks water the first three days; four. give the chicks food for 48 hours from hatching: five, give as drinking water that in which rice has been boiled The list might be greatly extended; many of these remedies were beneficial to some extent. though at best they represented the efforts of those who were somewhat in the dark concerning the real nature of the disease. Indeed the experiment station experts themselves have only within the last two seasons found a satisfactory solution of the problem. Of better purpose than to rely entirely upon any of the above methods of control is to acquire a good general idea of the whole subject from the information now available as a result of the investigations of the college poultry departments,

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there are o chicks which diarrhoea, the one wh that name. quently cal from a spe distinguishe may be me feeding.

> In com white diarr makes its tween five brought th tracting th diarrhoea pearance o a whitish around th age, and s heat, or if tinually be healthier run to wh with them he gets th the others chick will drinking, within and standing stead of At other t back and a 'pitiful When despatch

It pays t day to dis morning t amined fo the night, is at all f pure and daily the quently w to become drinking fountains healthry o it become

During care must pick at th most sus anything under ar scrupulou the dark thing, an chick-size will keep Other

incubator droppings ly had th hens prev the hands of the da by cleanl about e little chic of the m disease is cubating by the a fected or disinfect destroyin Chicks diarrhoea but they these bird pass the laying in present i transferr of the eg reduces quickly the eggs eggs wi directly must be the egg with a ailowed zenoleum but, as C. by Pr appear during in a bird diarrhoea means breeder white-dia disease a they are vitality

The hot bed is for the purpose of starting vegetables and flower plants, and the cold frame for transplanting them into before putting in the open garden or for the early growth of such plants as lettuce, radish and onions; both should be in a sheltered position from north or other cold winds. After clearing away ice or snow begin the hot bed by laying down a bed of fresh horse manure, well worked together, forked over and solidly tramped down about twenty inches deep, and a foot wider all around than the frame which rests upon it. The latter is made of two-inch by twelve-inch planks, or sound inch boards of the length to suit the sash. The back end should be a couple inches higher than the front sloping toward the south. About $2\frac{1}{2}$ feet to 3 feet by 5 feet is a handy size for the sashes which are especially made to use without putty for holding the glass in position. Use good heavy glass, which is less liable to breakage and will keep out frost better.

The frame should not be laid on the manure until the latter is settled and heating evenly Some manure should be packed around the out side of the frame also in case of severe weather Then fill in and tramp down evenly on top of the manure about five inches of the mould in which the seeds are to be planted. The sash should be lifted several times to let off the steam and excessive heat which will generate particularly on a sunny day. The little plants are some times ruined by too great heat, and bad results also occur from the use of wet earth instead of mellow mould. Where frosts are severe it is some times necessary to lay a canvass above the glass such at night. Such plants as tomatoes and certain flowers are very tender. The vegetables commonly started in hot beds are t matoes, cabbages, cauliflowers, celery and peppers, and such flowers as asters, halsanes, pansies, nasturtiums, canterbury bells, fox gloves, etc.

In e location, like central Western Ontario

When the young turkeys are four or five weeks old and the feathers begin to disappear from the

Modern treatment of disease is always preventative when possible rather than awaiting to cure until after the disorder becomes established, the latter being but the second line of defense; and prevention is only assured when the causes and nature of the disorder in question are understood

NATURE OF THE DISEASE AND PREVEN-TIVE MEASURES.-There is some confusion anpertaining to the name "white diarrhoea" for there are other forms of bowel trouble amongst

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chicks which may be mistaken for bacillary white diarrhoea, the latter being the most serious and the one which is most correctly referred to by that name. The genuine white diarrhoea is frequently called 'bacillary'' because it originates from a specific bacillus or germ, and thus it is distinguished from other bowel troubles which may be merely the temporary effects of improper feeding.

In common with most germ diseases bacillary white diarrhoea is very contagious. It generally makes its appearance when the chicks are between five and ten days old, and if they can be brought through this critical period without contracting the disease, they are safe as far as white The characteristic apdiarrhoea is concerned. pearance of the infected chick is weak and sleepy; a whitish discharge is generally to be observed around the vent. The chick is small for its age, and spends most of its time dozing near the heat, or if it runs out with the others it is continually being jostled around by the stronger, healthier chicks. An affected chick will often run to where others are scratching as if to work with them, but as a rule his ambition fails when he gets there, and he will stand and doze while the others get the grain. Sometimes an affected chick will show an inordinate thirst and stand drinking, drinking, until thoroughly saturated within and without; and then, chilled, and still standing by the water, off he goes to sleep instead of running under the hover to get warm. At other times such a chick will stand with head back and eyes almost closed, continually sounding a pitiful "peep-peep-peep.

When a chick shows any of these symptoms despatch him promptly and burn the remains. It pays to watch the chicks a few minutes each day to discover and remove any new cases. Every morning the space under the hovers should be examined for chicks which may have died during the night, and the litter should be changed if it is at all foul or damp. Drinking water must be pure and should be changed four or five times daily the first three weeks; after that less frequently will do, though it should never be allowed Nothing is worse than dirty to become dirty. drinking water, and disease germs are left in the fountains by sick chicks to be taken up later by healthy ones if the water is not changed before it becomes polluted.

During the first four days in the brooder great care must be taken that the little chicks do not pick at the droppings, for at this age chicks are most susceptible to infection and will pick at anything in sight. To prevent this, the space under and around the hover must be kept scrupulously clean. If the chicks are kept in the dark while resting they will not pick at anything, and while they are out exercising, a little chick-size scratch grain scattered in the litter will keep them out of mischief.

Other possible sources of infection are dirty incubators, brooders, drinking or feeding vessels, droppings from mature birds which have previously had the disease, eggs used for incubation from hens previously affected with white diarrhoea, the hands of the attendant if he has previously Much of the danger from such sources may be removed by cleanliness and the liberal use of disinfectants about every place and vessel with which the little chicks are liable to come into contact. One of the most trying features of suppressing the disease is how to avoid the consequences of incubating infected eggs. It is impossible to tell by the appearance of the egg whether it is infected or not, and it is equally impracticable to disinfect the contents of a suspected egg without destroying its usefulness for hatching. Chicks may be mildly affected by white diarrhoea, recover, grow up apparently healthy, but they still carry the germs within them. If these birds are used as breeders they may in turn pass the disease on to the next generation by laying infected eggs. For the germs are often present in the oviduct of the hen and may be transferred to both the contents and the outside of the egg. Disinfecting the outside of the egg reduces the danger somewhat, and it may be very quickly accomplished without harm, by dipping the eggs in alcohol just before incubating. eggs will quickly dry off and may be placed directly on the egg trays. The operator's hands must be clean and the inside of incubator, and the egg trays should previously be disinfected with a 10 per cent. solution of zenoleum and allowed to dry before placing the eggs. The zenoleum is not only valuable as a disinfectant. but, as was found by experiments at the O.A. C. by Prof. Graham, the fumes or odor given off appear to have a beneficial effect on the eggs during incubation. It is sometimes the case that a bird which has never suffered from white diarrhoea may yet be a germ carrier and a means of spreading, the disease if used as a breeder. It is very seldom that these recovered white-diarrhoen chicks ever suffer from the active disease after they attain growth, but in any case they are seldern good layers or of as strong vitality as totally unaffected birds; and the dan-

ger is evident of spreading the disease amongst future hatches, if, for any purpose, these germ carriers are retained on the premises. They are not, however, unfit for table use, as the internal effects of white diarrhoea in mature fowls are confined to the parts commonly rejected. The giblets should not be used. Hence the wisdom of immediately killing off all chicks which show symptoms of the disease; for even if they recover, they will but grow up to be germ carriers.

When one considers the widespread prevalence of the disease, it is natural to conclude that the germs which cause white diarrhoea are to be found in some members of almost every flock; and such is indeed the case. Even on poultry farms where white diarrhoea has never been a serious menace, there are almost invariably few cases each year. It does not necessarily follow that all chicks which are exposed to the infection succumb. Even in a badly affected hatch there are almost always a number which escape infection, and these are without exception the strongest, most active chicks, apparently they have no time to be sick.

This shows that apart altogether from sanitary measures, such as pure drinking water and the liberal use of disinfectants, vigor in the chicks is a most important element in the control of Vigorous chicks can only come the disease. from vigorous breeding stock-another important point. The power of vitality in strong chicks to resist disease is what spared many large poultry farms from serious loss before the control of the disease was as well understood as at present. These men kept vigorous stork and they raised vigorous chicks, hence wh: liarrhoea never got hold. But strong breeding stock alone will not prevent trouble. The best eggs possible for hatching may be so weakened by improper incubation that the chicks will be predisposed to disease from the time they hatch; proper incubation is a necessity. Quite as important are good brooding and feeding.

Provided then with the right kind of breeding stock, proper incubation, brooding and feeding, little difficulty will be experienced with white diarrhoea or any other disease.

STAMPING OUT THE DISEASE FROM IN-FECTED BREEDING FLOCKS .- The above measures will answer very well for anyone starting in afresh with a new flock of thrifty, vigorous breeders, but what can be done with an established flock in which white diarrhoea has been prevalent among the chicks for several years, and is therefore carried by and spread annually from the breeding stock? Keeping the disease out is easier than stamping it out after it becomes established, but the latter can also be accomplished with patience.

The first step is to make the rule to use for breeders only the most vigorous and healthy stock; avoid in-breeding; be particular to secure strong male birds. Raise chicks only at the time of year when eggs are most fertile and the germs strong-from April to June. Give the chicks every chance to do well, being especially careful during the first three weeks. Anybody can do this much and it will result every year in a decrease in the percentage of affected birds. A second step securing still quicker results, if properly carried out, is the following : As soon as the hatch is cleaned up and the hatch dried off, remove to a darkened brooder where they should remain for 48 hours, first giving each bird three or four drops of clean sour skim-milk (or buttermilk) of good flavor, administered with an ordinary fountain pen filler before placing in the brooder. The chicks must be kept quite comfortable, and if at any time they become restless before the allotted time is up, give them light and allow them to run around the brooder for a few minutes, the floor of which should be covered two inches deep with fine-cut alfalfa or clover hay, or if neither is available. cut straw. Upon the least signs of weariness they should be put back under the hover, starting with the idlers and leaving the most lively ones to the last. Then darken the brooder again and they will remain quiet for some time. No food should be given during this time. It is not advisable during the first 48 hours to force any chicks to run about which would sooner remain under the hover, but from then on, if any remain continually under cover and seem weakly, they should be killed as they will only give trouble later on. Never try to raise the crippled chick which hatch occasionally from incubators-they are worthless.

and practically not a case of white diarrhoea was The manager believes that somewhat observed. better results are obtained by the use of pure culture than from ordinary sour milk, although both are satisfactory.

Another valuable asset in the war against white diarrhoea is the "blood agglutination" test. This corresponds in some respects to the wellknown tuberculin test for tuberculous cattle, though the method of making the test differs in some particulars. The test is made by drawing two or three drops of blood from the wing vein of the bird and to this is added a prepared serum which shows a certain reaction if the bird is infected. The test is said to be 98 per cent accurate, and it enables the disease-carrying birds to be detected and removed from the breeding flock. Last season the Poultry Department at Storrs, Connecticutt, gave free tests to poultrymen in that State, and guaranteed that names and results would not be made public,-the poultryman was permitted to do so if he desired. This enabled poultrymen to reject all reacting birds, and then advertise his flocks as free from infection.

In the many 'blood agglutination'' tests made the past season in different states the majority of flocks had some infected birds. Probably if advantage is to be obtained the "blood agglutination" test will be introduced extensively in Ontario, unless, as is quite possible, the sour-milk treatment will answer the same purpose.

F. R. WALLIS. York Co., Ont.

Poultry Products will be Dear in Canada

Speaking in London, on February 11, on the question of "Patriotism and Production," Prof. F. C. Elford, Poultry Husbandman, Central Experimental Farms, Ottawa, gave expression to some alarming, yet, to poultry keepers, pleasing statements regarding the poultry situation in Canada. To the uninitiated in the poultry business to-day the outcome is indeed discouraging. The high price of grain and the comparatively low price of poultry products has had the effect of dampening the ardour of many an enthusiastic poultryman. However, by referring to conditions past and present with well founded predictions regarding the future, Prof. Elford showed a silver lining to the clouds on the horizon of the poultry business. In this regard, said Prof Elford, Canada is not feeding herself.

In 1891 the Dominion of Canada exported 11,000,000 dozens of eggs besides dressed poultry. Contrary to this, even as far back as 1911, the tide was turned and Canada imported 11,000,000 more dozens of eggs than she exported. Canadians are eating more eggs. In 1901 there were two and one-half hens to each one of the population. In 1914 there were 4.1 hens to each one of the population. In 1914, Canadians ate 30 dozen eggs per capita. This may seem large at fiest sight, but when we take into consideration the 365 days in each year the amount of eggs eaten by each one per day is very small indeed. A census in the State of Iowa showed that there 58 dozen eggs were consumed by each person in the state in one year. Continuing with the qu the tion regarding eggs, Prof. Elford said that 11,000,000 dozen eggs imported last year from the United States are not in sight for the season of 1915, and it appears that Canada is not going to be able to supply the demand. There is yet Great Britain to be taken into consideration. Britains eat 12,000,000 eggs per day and they only produce one-third of that amount. Four and one-half million dozens of eggs go to the Britains each year from Canada and the United States, while the remainder of their enormous importation has been coming from Russia, France, Germany, Denmark, Austria-Hungary and the Netherlands. The circumstances at present makes the situation peculiar for the people of Great Britain. Many of the countries and in fact the countries supplying the greater amount of eggs to Great Britain are now at war and the speaker furthermore explained that in consequence of this there was a future for Canadian eggs in the Old Country after the demand was supplied here at home. There would be a call for a greater production of eggs even apart from any patriotic sentiment which might be urged in Canada. If every hen could be induced to lay one dozen eggs more per year it would mean about 40,000,000 dozens more eggs in Canada or eight to ten million dollars worth. Prof. Elford was awake to conditions in Canada, at the present time, and explained why dressed poultry was so cheap during the fall of 1914. He explained it in this wise: In the fall of 1913, dressed poultry was very dear, dealers filled up their storerooms with high-priced stuff and in consequence of the high value placed upon that commodity, consumption was decreased, in the season of 1913 and 1914 so a bigger stock was held over than ever before. During the fall of 1914 dealers did not take a chance on purchasing dressed poultry with the result that it sold

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It is believed that the sour milk treatment of newly-hatched chicks prevents the disease from gaining a hold because the lactic acid in the milk hinders the development of white-diarrhoea germs. While it has long been known that sour mulk is good for chickens this method of treating newly-hatched chicks was originated only last spring on the farm of the Hon. Seth Law, in the State of New York.

In 1913 the mortality on this farm among the 5,000 odd chicks hatched was 50 per cent. white diarrhoea prevalent. Last season, when for the first time the chicks were given the sour-milk treatment the mortality was only 25 per cent., at a low figure but dealers in the larger 'cities

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tities of this product in their store-rooms Sav that never before were their houses so empty of this commodity. Furthermore, the high price of grain and foodstuffs forced many to sell their fowl even in an unlitted condition. The result of all this is that there is not the amount of laying and breeding stock in the country to-day that there was one year ago. The speaker was emphatic in his denunciation of the system of selling poultry products in this country. He remarked that 90 per cent, of the poultry was marketed in Canada in the brief period of two months. 1f producers would extend their marke ing operations over the entire season they would obtain a much greater revenue. Consumption would be increased and the results would be far more satisfactory to both producers and to the consumer. With reference to broilers, Prof. Elford said, that 30 c nts to 50 cents per pound could be obtained for broilers during the menths of April and May whereas if thosy same birds were allowed to continue to grow until fall they would only command from 8 cents to 11 cents per pound. The speaker was cognizant of the high price of feeds and what it meant to poultrymen yet he advocated cutting

Guineas on the Farm.

out oats, at the present time, and feeding some

corn, during cold weather, with a mixture of

barly, buckwheat and if possible a little wheat.

who are in the habit of accumulating large quan-

Editor "The Farmer's Advocate"

It has been said that guinea fowl will drive away and keep away rodents. That was the reason that grandfather bought three, two hens and a cock. The theory on which these birds keep away rodents—at least so it is explained—is by the noise they make, but I have found by experience that it takes som thing more than the not unmusical though constantly repeated "buckwheat," "buckwheat" to frighten the persistent rats and mice.

We had the guineas and kept them; they are rather wild in their nature and wander all over the farm, usually coming up to the carns at feeding time. They hide their nests away under buildings in the groves and other places not easily reached. The hens are great layers, especially if the eggs are taken from their nests regularly. The eggs are smaller than hen's eggs but of good flavor, and since the hens are such prolific layers it would be a good thing for farmers to keep a few to supply eggs for general cooking. The guineas roam about and gather the bulk of their food afield, so that it costs very little to keep a flock, to say nothing of the benefits they are to crops at a distance too great to be within range of the chickens eating bugs, insects and weed seeds galore.

Guineas make fine birds for the table, their appearance and flavor is not unlike that of game birds, for which they are often substituted. Guinea eggs may be incubated by hens, and when the young arrive, if they are well and carefully fed it does not take the 'keets' long ere they tip the scales at a pound or a little less, and these "squabs" if you like to call them such bring fancy prices in every city market. They are simply delicious. Try keeping a few guineas. It is a good hobby. Guinea feathers are very ornamental and are used in millinery for dusters and various other purposes. Welland Co., Ont. Ich Fien.

ported the Ayrshire business on a good solid basis, and that Ayrshire breeders were doing well, considering the financial stringency. The members list totalled 1,222, an increase of 138 during the year. There have been 26 registrations and several deaths.

Registrations numbered 3,496, an increase of 238 over 1913, Quebec Province making the Ayrshires had made splendid greatest gain. showings at all the leading exhibitions in Canada, and good records in the dairy tests. Applications to the Record of Performance test numbered over 4:0 during the year, and 124 Dipiemas were issued for cows and helfers that had given su liciant milk and butter-fat to qualify The following cows and heifers now hold the records in their respective classes : Mature class, Milkmaid 7th, with 16,696 jounds of muls and 729 pounds fat; Four-year-old class, hairy of Ferndale, with 15,534 pounds of milk and 590 rounds of fat, this cow has also a two year-old record of 30,064 pounds of milk and 1,111 pounds of fat; Three-year-old class, Hazel of Bonn'e Brae, with 13,017 Founds of malk and neord of 22,12) poinds of milk and 861 pounds of fat: Two year-old class. Briery of Springban's 2nd. with 14,131 pounds of milk and 520.49 pounds of fat. In all twenty-six bulls, having four or more progeny qualify, have been registered. Scottie heads the list with 13 of his progeny registered.

The Secretary urged the breeders to enter their cows in this test, as they would find it profitable to do so.

Volume 23 of the Herd Book was issued containing 3,554 redigrees of Ayrshare cows and heifers, and 1,418 transfers besides other valuable information to Ayrshire breeders.

The annual contained 188 pages of interesting information, and 2,000 copies were printed in English and 700 in French, and sent out to all Ayrshire breeders in Canada and to a number in the United States and other countries, and to others on inquiry.

Ten thousand copies of the records of 426 Ayrshire cows and heifers were published and widely circulated. Both the President and Secretary stated that the new United States regulations, which came into effect on July 1, 1914, had seriously stopped our trade in dairy cattle with the United States. This regulation requires that the Department Veterinarian give a certificate with every shipment of dairy cattle going to the United States, that no tuberculosis has existed on the premises from which the cattle are taken, for a period of 60 days previous to shipment.

There are now five Avrshire Clubs in Canada in Menie, Southern Counties, Brockville, Alberta, and one in British Columbia. These Clubs were doing good work for the breed by encouraging community breeding, and otherwise fostering the breed in their respective districts.

Thirty-two breeders during the year and 154 in all had registered their for a state of the gives them the absolute use of the name unconmetion with the registered certificates of their stock. The S-cretary paid a high tribute to the press for the manner in which the result certain tural papers published the copy sent them from time to time, and which was usually fullished. This refers particularly to the publishing of the records of cows and heifers qualified in the Record of Performance Test. FOUNDED 1866

Farmers of Alberta Get Together.

The United Farmers of Alberta in their annual convention, held recently in Edmonton, discussed in full their position in the agricultural field.

The Chairman, D. W. Warner, introduced Hon, Duncan Marshall, who referred to the back-tothe-land movement and to the European war. He said : "I have been besieged with schemes from divers sources of putting the people back on the land." These had come chiefly from real estate brokers. His recommendation had always been to suggest to those men desiring to farm to first hire out and see whether they really wanted to get back to the land or get the land to their back. "The Government," Mr. Marshall stated, fintends to assist not real estate brokers but men who are now on the land." In reference to the war, he mentioned that when the day of reckoning came the American Contin-5: would be pointed to as the great example of democracy and harmony where 4,000 nules of coundary line existed, and not a cannon or a warship pointing either north or south. The American countries realized that the homes of the nation were its strongest fort, and the Unit d Farmers stood for no higher object than better homes on the

P. P. Woodbridge, Secretary of the United Farmers' of Alberta, presented his report, which on the whole indicated progress. In part it read:

"I am able to report once more another substantial increase, both in the number of local unions and in our total membership, though as will be shown later a closer analysis of the situation will cause us to somewhat modify our earlier enthusiasm. During the year more than 100 new unions have been formed with a total paid up membership up to December 31, of approximately 2,500 men. Our total membership fully paid up has only increased by some 1,600 men, which would indicate a falling out mour old unions, of nearly 900. These figures constitute a serious loss and the cause and remedy for same must receive our very careful consideration, if our association is to continue to make progress in the future. Some of our unions have developed in a truly remarkable manner, notably the Cowley and Veteran branches. The former with nearly 250 members, its own monthly bulletin (paid for by the advertisers therein), its semi-annual sales and regular course of lecturers to say nothing of many other features, is a union of which we may rightly be proud. A few words must also be said here of our District Association consisting of unions clustered around a common shipping point. Prominent among these groups are the Ponoka, Crossfield, Consort and Manville District Associations, with several others running very close. At least two of these, the first mentioned, are rapidly developing the marketing of live stock and farm products by their own organization, thus keeping the profits at home for the development of their own farms and giving a practical illustration of the possi-

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FARM BULLETIN.

Annual Meeting Canadian Ayrshire Breeders Association.

Lae 14th annual meeting of the Canadian Ayr shine Breeders' Association was held in Montreal on February 10th, 1914. There was assembled a larger mander of members than at any previous gathering. The meeting was ably presided over by P. D. McAulan, of North Georgetown, Ques, who, in his report, beingly referred to the paintal conditions in Europe caused by the terrible wat. He also referred to the noble part taken by Canada in fulfilling her duty to the mother Lond, by giving of her sons and otherwise assisting in this critical time. The expressed gratification at the progress made by the Association during 1914, under the severest financial stringency experienced for many years. This indicated the stability of the Ayrstare business. He advised her dets to continue to develop their herds, as he was of the opinion that intrach, by the war was over there would be a etech domaid for choice Ayrs'ines for where there was a cloward demand, as Ayr dides were proving to be wrent prominers and the mesh scotter the the Effective to the called special attention to the Effective to the trace special to the Departition of the the Effective to the called special attention to the Effective to the trace special to the Departition of the the trace special to the Departition of the the trace special to the Departition of the time of the trace special to the Departition of where a Ayr meeting the to the particulation to the trace special to the Departition of where of Ayr meeting

The Secretary, W. E. St phen, C. Southinger (Quey, in ids tepath clock is of the new secrets conditions caused by the European const. He be In closing his address the Secretary referred to the increased work of the As orbition, which indicated the demand for Ayrshires was increasing at a considerable rate.

The financial statement showed receipts to be 88.851.02 and expenditure 87.792.94, and a balance on hand of 85.712.15.

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The Best Known.

Edutor "The Farmer's Advocate":

I shave been a subscriber of the "Farmer's Advocate" for the past year and find it to be the best farm paper known. It is always full of good stories and valuable information for all good farmers.

Welland Co., Ont EDWIX VI

Why should a tarmer lend noney at the per

cont, when the banks would charge seven or eight? It was brought out at the stockmen'bananet in Toronto that farmers with money should lead it at a low interest to other farmers. Frue, it would be preferable to depositing it in a back, but surely the farmer's money leaned on bote or mortgage is worth as infich as the bank of a bank lead on the part has

An Essex County correspondent, Wm - S Partick, states that he fields it requires about 512 enducined of hav for a ten in an ordinary mow without other pressure. bilities of 'self-help' to which we are apt to bilities of 'self-help' to which we are apt to provinced that it should be one of our most 'important duties as an association to standardize and further develop such erganizations which are the surest means to a full realization of that good old aim of agricultural co-operation the world over. Bester farming, better business, better living.

Almost every day the truth is thrust upon us that not all the legislation in the world can save a man from his own foolishness and that the only true preventive is organization, education and co-operation through the unions of the United Earthests of Alberta.

There are three things which occur to me as being of vital importance if we are to keep our mions in a good healthy condition, the secret of which is, of course, a good healthy attendance of the members at the regular meetings of the 1 mon. The first of these is a good istogramme of subjects suitable for the purpose of debate. The second, a good system of handling the business of the Union, wherely each man can be made to realize his own responsibility, particularly in financial matters. The third, a modern and effective system whereby practical organizers, well trict where a local union exists at 'cast once a versed in the troubles of a local union, and competent to supply a genedy, can visit every disvent."

In the year which has just closed there have been held four meetings of the full Poard of Directors, and five meetings of the Executive Committee Their report reads in part :

"At the Board meeting immediately following the last convention, various committe's were appointed to look after certain work and of these the Legislative. Pork Packing, and Variet and Transportation Committees will report senarateby as will also the combers of the Canadian Council of Agriculture. The past year has been a very busy one and many important problems

Receipts a Toronto, or large, espec 134 cars, hogs, 412 s was dull, a not more t sold up to \$7.50 to \$7 latter pric \$6.75 to \$ common, \$ \$5.75 to \$ aers and c \$5 to \$6.: count of and few.wa ers, \$60 Sheep, \$4 Hogs, easie \$7.75 fed a cars.

REVIEW (The tota City and U week were

H Cars H Cattle M Hogs Sheep ... Calves Horses

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THE FARMER'S ADVOCATE.

have had to be met by our Board, requiring im-

mediate and vigorous action. "Your directors regret that the outlook for union stockyards and public-owned abattoirs, both at Calgary and Edmonton, which looked so promising last year, is now far from satisfactory, and in Calgary the by-law for the purchase of the franchise at present held by the Alberta Stockyards Co., was defeated by the ratepayers. The principal cause for this may probably be traced to the financial stringency which was greatly aggravated by the outbreak of war.

"Your Board note with pleasure the success achieved by the rural, municipal, or co-operative system of hail insurance and hope to see this plan largely extended within the next few years. There are doubtless a number of details which will have to be improved on and doubtless will be, as the system continues to develop and grow financially safer and stronger. Meanwhile, the principle is a sound one and our members whereever possible, should find it to their advantage to give the scheme a fair trial.

Your Board regret sincerely the unfortunate conditions prevalent in certain sections of our province and in Saskatchewan. As soon as it was seen that some distress was inevitable, representatives of the Central office met with officials of the Dominion and Provincial Governments, also the C. P. R., and we believe that the arrangements for granting relief and assistance by all three parties resulted very largely from the representations made to them on behalf of your Board at that time.'

The Revision of the Tariff.

The budget speech of Hon. W. T. White, brought down on February 11, provides for an upward revision of the tarial as has been expected for some time, due primarily to the war. Briefly the increase is $7\frac{1}{2}$ per cent. all round, and 5 per cent. in the British Preferential Tariff. The tariff hits all articles with the following exceptions : fish from Newfoundland, animals for the improvement of stock, cocoa and chocolate products, tea, salt for the fisheries, Indian corn, except for distillation purposes, wheat, wheat flour, sweetened biscuits, squid. oysters, sugar, tobacco, wines from South Africa, printed books, newspapers and magazines, news printing paper, matrix paper, nicontine sulphate, ores of metals bells for churches, gold and silver coin, and gold and silver ingots, blocks, bars, drops, etc., type setting and type casting machines, newspaper printing presses, mowers, binders, harvesters and reapers, traction ditching machines, surgical and dental instruments, material for ships, binder twine, and articles for the manufacture of binder twine, fish hooks, lines, twines, and nets for fisheries, artificial limbs, artificial teeth, (not mounted), and articles specified in tariff for schools, hospitals and charitable objects, settlers effects. The customs duty on the above remain unchanged.

It will be noted that of these only five specific agricultural implements or machines are exempt under the new tariff, namely, reapers, binders,

mowers, harvesters, and traction ditchers. All of the others are subject to the 71 per cent. increase, which means an increase from 20 to 271 per cent. on such machines and implements used on the farm as plows, cultivators, harrows, disk harrows, threshing machines, wagons, etc. Binder twine, tea and settlers' effects, wheat, flour, sugar, and the agricultural matters mentioned as well as tobacco and printed books, are the other important articles not affected by the boost.

The new tarif hits everyone. The banks must pay a yearly sum equal to 1 per cent. upon their note circulation, this is to be turned in quarterly. It is hoped that this will raise the revenue \$1,000,000. Trust and Loan Companies, incorporated under any legislative authority, must also turn into the Government a sum of money equal to 1 per cent. of the gross income derived in Canada. As with the banks this is payable quarterly. Insurance corporations, societies or associations, carrying on business of insurance, other 'than life fraternal, benefit and marine insurance, must pay a sum of 1 per cent. upon all premiums received in Canada, this money to be paid quarterly. All this applies to business transacted after Jan. 1st, 1916. Everv cable and telegraph company using telegraph, cables or wires, within the jurisdiction of Canada must pay a sum equal to 1 per cent. upon each dispatch or message originating in Canada, and for which a charge of 15 cents or more is imposed. These returns are also to be made quarterly. Companies are authorized to make the additional charge to the person sending the message. Every person purchasing a railway or steam boat ticket in Canada for any point within this country, Newfoundland, the West Indies, or the United States, will be obliged to pay 5 cents extra for a ticket costing over \$1.00 and not more than \$5.00, and 5 cents for each additional \$5.00 or fractional part thereof which the ticket costs. Parlor and sleeping car seats and berths will be taxed 5 cents for the former and 10 cents for the latter. The companies selling the tickets referred to are authorized to collect taxes and transmit it to the Government. Tickets to foreign countries will be taxed \$1.00 for tickets of \$10.00 or over; \$3.00 for tickets exceeding \$30.00 in cost, and \$5.00 for tickets exceeding \$60.00, the company to collect from the passenger.

There will also be placed stamp taxes on all checks, receipts to banks by depositors, on bills of exchange, passing through a bank, the amount to be in each case 2 cents. The stamp tax of 2 cents will also be placed on express and post office money orders, and 1 cent upon postal notes. Besides this every letter and postal card, posted in Canada will be subjected to a war stamp tax of 1 cent, this means that it will require 3 cents in place of 2 cents to send a letter, and 2 cents in place of 1 cent to send a postal card. A tax 2 cents will also be placed on every bill of lading. All proprietary or patent medicines and perfumery sold in Canada at a price per bottle of 10 cents or less must pay a tax of 1 cent, and an additional cent for each 10 cents above this amount. Wines, non-sparkling sold in Canada,

must pay a tax of 5 cents on each package containing one quart, and 5 cents for each additional quart. Champagne and sparkling wine must pay 25 cents upon each pint. These special taxes go into effect at a date to be fixed in the Act with the exception of the taxes on wines and champagne, which go into effect at once. The tariff charges, according to the usual custom, go into effect immediately on announcement. The total amount of increase revenue expected from the special tax is estimated at from \$8,000,000 to \$10,000,000. While the increased revenue to be obtained as a result of the proposed tariff changes is estimated at from \$20,000,000 to \$25,000,000. The special taxes will be incorporated in a bill entitled "The War Revenue Act, 1915," covering both the tariff taxes :and the special taxes.

The Hon. W. T. White, in speaking of the special war expenditure hinted that the Government may borrow \$100,000,000 to fill the gap between revenue and expenditure. He proposed to the House that this should be borrowed; and backed up his belief by stating that public borrowing for capital account is always justified on the principle that expenditure upon enterprises permanent in their nature works to the benefit and advantage of future generations, who may in all fairness be asked to pay interest upon the debt contracted. This being true, he saw no reason for reluctance in borrowing to meet the expense of this war. Because such borrowing is for the purpose of preserving national and individual liberty and constitutional freedom. An arrangement for procuring the funds necessary from the Imperial Government will be followed out.

Robert Thompson Passes.

Ontario lost one of its foremost fruit-growers through the demise of Robt. Thompson, of St. Catharines, which occurred suddenly on the morning of Feb. 9th, while enroute to Grimsby. The deceased was President and General Manager of the St. Catharines Cold Storage and Forwarding Company. For many years Robt. Thompson was a prominent fruit-grower in the Niagara district, but his efforts were not only along the line of production, for he was a pioneer in all efforts of shipping tender fruits to the far West or to He has occupied the highest seats in Britain. theFruit Growers' Associations of the Province, and he was well known to fruit-growers not only in the Dominion of Canada but in Horticultural circles in the United States as well. Improved methods in packing, shipping and handling fruit date back, in many cases, to the initiative efforts of Robt. Thompson. In all educational work and endeavors for the betterment of social conditions the deceased was a conscientious worker. He was born at Ballahinch, County Fown, Ireland, 59 years ago and arrived in the Niagara district with his parents on his first hirthday. Fruit-growers and Ontario's agriculture in general will lose a staunch supporter through the departure of Robert Thompson.

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Toronto, Montreal, Buffalo, and Other Leading Markets.

Toronto.

sold up to noon. Choice heavy steers

\$7.50 to \$7.75, and only one load at the

latter price; good steers and heifers.

\$6.75 to \$7.25; medium, \$6.50 to \$6.75;

common, \$5.75 to \$6.25; cows, choice

\$5.75 to \$6.25; good, \$5 to \$5.50; can-

mers and cutters, \$3.50 to \$4.50; bulls,

\$5 to \$6.25; feeders, none selling on ac-

count of embargo in New York State,

and few.wanted here; milkers and spring-

ers, \$60 to \$100; calves, \$6 to \$11. Sheep, \$4 to \$6.25; lambs, \$7 to \$9.

Hogs, easier, at SS weighed off cars, and

\$7.75 fed and watered, and \$7.40 f. o. b.

REVIEW OF LAST WEEK'S MARKETS

City and Union Stock-yards for the past

 Cars
 46
 484
 530

 offCattle
 165
 5,435
 5,900

unteHogs 1.160 17,633 19,093

 Sheep
 601
 1,374
 1,975

 Calves
 33
 354
 387

 Horses
 30
 47
 77

The total receives of live stock at the

City. Union. Total.

cars.

week were :

of 1914 were :

" Cars

 3 218 8 2,566 4 4,006 6 775 6 275

The combined receipts of live stock at the two markets for the past week show an increase of 312 cars, 3,334 cattle 15,087 hogs, 1,200 sheep and lambs, 112 calves, but a decrease of 85 horses, compared with the corresponding week of 1914.

Receipts of live stock were moderately was a good steady trade in nearly all of the different classes of cattle, with few changes in values from our last

\$7.50 to \$8.15, and a few extra quality at \$8.25; good, \$7 to \$7.25; medium \$6.25 to \$6.50; common, \$6 to \$6.25 choice cows, \$6 to \$6.25; good, \$5.50 to \$5.75; common, \$5 to \$5.25; canners and cutters, \$3.75 to \$4; bulls, \$5 to \$6.75. Stockers and Feeders.-Steers 800 to 900 lbs., sold at \$6 to \$6.40; steers 70.) to 800 lbs., at \$5.75 to \$6; stockers, at \$5 to \$5.75.

Veal Calves .- Receipts were light and prices very firm. Choice veal calves, \$10 to \$11 per cwt.; good, \$9 to \$10; medium, \$7.50 to \$8; common, \$4.50 to \$6.50.

Sheep and Lambs .- Receipts were not large, and prices remained about steady all week. Light ewes, \$5.75 to \$6.25 heavy ewes and rams, \$4.50 to \$5.50; light lambs, \$8.75 to \$9, with a very few Shropshire-bred about 80 to 90 lbs., at \$9.25; heavy lambs, \$7.50 to \$8.

Hogs .- Receipts were liberal all week, several shipments having arrived from the Northwest, but prices were firm all week.

BREADSTUFFS.

Wheat .- Ontario, No. 2 red, white or mixed, \$1.55 to \$1.60; Manitoba, No. 1 northern, \$1.66%, track, bay points. Oats.—Ontario, No. 2 white, new, 61c. to 62c., outside. Manitoba oats, No. 2. 74c.; No. 3, 71c., lake ports.

Rye.—Outside, \$1.23 to \$1.25.

Peas.-No. 3, \$2 to \$2.05, outside. Barley .- For malting, 78c. to 80c.,

Corn.-American, new No. 3 yellow, 85c., track, Toronto.

Buckwheat.-No. 2, 85c., outside. Rolled Oats .- Per bag of 90 lbs., \$3.40 to \$3.50.

Flour.-Manitoba flour - Prices at Toronto were : First patents, \$8; second patents, \$7.50; in cotton, 10c. more; strong bakers', \$7.30; Ontario, 90-percent, winter-wheat patents, \$6.85 to \$7.10, Montreal.

HAY AND MILLFEED.

Hay .- Baled, car lots, track, Toronto, No. 1, \$17 to \$17.50; No. 2, \$16 to \$16.50 per ton.

Bran.-Manitoba, \$26 in bags, track. Toronto; shorts, \$28; middlings, \$33 to \$35.

Straw.-Baled, car lots, track, Toronto, \$8 to \$8.50.

COUNTRY PRODUCE.

Butter .- Prices were unchanged. Creamery pound rolls, 33c. to 35c.; creamery solids, 30c. to 31c.

Eggs. New-laid eggs sold at 33c. to 35c., by the case; cold-storage, 29c. to 30c.; selects, 32c. to 34c.

Cheese.-New, large, 18c.; twins, 181c. Honey .-- Extracted, 12c.; comb, \$2.50 to \$3 per dozen sections.

Beans.-Hand-picked, per bushel, \$3, primes, \$2.75.

Potatoes .- Per bag, 55c. for car lots of Canadians, track, Toronto; New Brunswick, 60c., track, Toronto.

Poultry .- Turkeys, per 1b., 16c. to 18c.; spring ducks, 12c. to 14c.; hens, 12c. to 13c.; spring chickens, live weight, 12c. to 13c.; squabs, per dozen, \$4; geese, 10c. to 12c. per lb.

HIDES AND SKINS.

City hides, flat 18c.; country hides, cured, 151c. to 181c.; country hides, part cured, 151c. to 181c.; calf skins, per lb., 19c.; kip skins, per lb., 17c.; sheep skins, \$2 to \$2.50; horse hair, per lb., 40c.; horse hides, No. 1, \$3.50 to \$4.50; wool, unwashed, coarse, 171c.; wool, unwashed, fine, 20c.; wool washed, coarse. 26c.; - 6

FUI MICRO SAFETY A N

218 .566 ,006 775275162 not more than a third of them being

> large, especially cattle and hogs. There letter.

Butchers' Cattle .- Choice heavy steers

Milkers and Springers .- Choice milkers and forward springers sold at prices ranging from \$60 to \$100, and more would have sold at these figures, al-The total receipts of live stock at the though there was a fair delivery during two markets for the corresponding week the week. The bulk of sales were made between \$70 and \$85.

THE ROYAL BANK **OF CANADA** Capital Authorized - - \$ 25,000,000 Capital Paid up - - - 11,500,000 Reserve Funds - - - 13,000,000 Total Assets - - - 180,000,000

HEAD OFFICE: MONTREAL

Branches throughout every Province of the Dominion of Canada

> Accounts of Farmers Invited Sale Notes Collected

Savings Department at all Branches

wool, washed, fine, 28c.; lamb skins and pelts, \$1.15 to \$1.50; tallow, No. 1, per 1b., 51c. to 7c.

FRUITS AND VEGETABLES.

Apples-Spies, \$4 per barrel; Baldwins, \$8.25 per barrel; Russets, \$3.50 per barrel; Talman sweets, \$3 to \$3.50; Ben Davis, \$2.75; Greenings, \$3.25 per barrel. Bananas, \$1.25 to \$2 per bunch; cranberries, \$5.50 to \$7 per barrel; \$2.25 per box; Malaga grapes, \$5.50 to \$6.50 per keg; grape fruit, \$2.25 to \$2.75 per case; limes, \$1.50 per box of 100; lemons from Messina, \$2.50 to \$3.50 per case; California, \$3 to \$3.25 per case; oranges. Florida, \$2.75 to \$3 per case; Messina, bitter, \$2.50 to \$2.75 per box; pineapples, Porto Rico, \$3.25 to \$3.50; rhubarb, 90c. to \$1.10 per dozen bunches; beans, \$5 per hamper; beets, 60c. per bag; 50c. to 65c. per dozen bunches of new growth; Brussels' sprouts, American. 23c. per box, and 20c. per lb.; cabbages, 25c. to 40c. per dozen, and \$1 per barrel; carrots, 50c. per bag; new, per hamper, \$1; celery, California, \$4.50 to \$4.75; Canadian, 20c. per small box; cauliflower, no good on the market; onions, Spanish, \$4 per crate; \$1.35 per small box; Canadian, \$1.25 to \$1.35 per bag; parsnips, 50c. per bag; turnips, 30c. to 35c. per bag.

TORONTO SEED MARKET.

The following are the prices quoted by Toronto seedsmen, to the trade, for recleaned seed : Red clover No. 1, \$20 to \$21 per cwt.; red clover No. 2, \$18.50 to \$19 per cwt.; red clover No. 3, \$18 per cwt.; alsike clover No. 1, \$19 to \$20 per cwt.; alsike clover No. 2, \$17.50 o \$18.50 per cwt · alsike clover No. 3 \$16 per cwt.; alfalfa clover No. 1, \$19 to \$22 per cwt.; alfalfa clover No. 2, \$18 to \$18.50 per cwt.; alfalfa clover No. 3, \$17.50 per cwt.; timothy No. 1 \$10 to \$11 per cwt.; timothy No. 2, \$8.75 to \$9.25 per cwt.; timothy No. 3, \$8 per cwt.

horses, weighing from 1,500 to 1,700 lbs., were quoted at from \$275 to \$300 each, and light draft, weighing from 1,400 to 1,500 lbs., at \$150 to \$200 each. Broken-down, old animals, were quoted at \$75 to \$100 each, and fancy saddle and carriage animals sold at \$300 to \$400 each.

Dressed Hogs and Provisions .- Demand for dressed hogs was good, and everything offered was being taken at steady prices. Abattoir-dressed, fresh-killed hogs were still selling at 111c. to 111c. per lb., and country-dressed #t 104c. to 102c. per lb. for light, and 9c. to 91c. for heavy. Smoked meats were practically unchanged. Breakfast bacon was 17c. to 19c., and Windsor, 21c. to 22c., Windsor boneless being 23c. to 24c. Hams were steady, at 16c. to 17c. per lb. for medium weights. Pure leaf lard was 12c. to 12%c., and compound, 9%c. to 10c.

Poultry.-The sale of poultry went quietly on. Turkeys ranged from 17c. to 20c. per lb., wholesale, while chickens and ducks were 12c. to 15c., and geese and fowl, 10c. to 12c. per lb., according to quality.

Potatoes .- Potatoes were unusually low in price, and consumption continued quite large. Green Mountains were still sold here at $52\frac{1}{2}$ c. for 90 lbs., in car lots. track. Jobbing prices were 10c. to 15c. above these figures.

Honey and Syrup.-Maple syrup was not in large supply, and prices were steady, at 85c. in small tins, and up to \$1.35 in 13-15. tins, while sugar was 10c. per 1b. White - clover comb honey was 16c. to 171c. per lb.; extracted, 12c. to 121c.; dark comb, 14c. to 15c., and strained, 6c. to 8c. per 1b.

Eggs.-The price of fresh eggs was lower again. Storage stock was steady Fresh-laid eggs were 38c. to 40c. per dozen. Selected cold-storage stock was steady, at 31c., and No. 1 was 28c. per dozen, No. 2 being 25c. to 26c

Butter .- With Lent at hand, creamery was firm and slightly higher. Demand was quite active. Choicest creamery was 31c. to 311c. per lb., while fine was 30c. to 30%c., and seconds were 29c. to 29%c. Dairy butter was also 1c. up, Ontario being 26c. to 27c., and Manitoba, 25c. to 26c. per lb.

Cheese.-The market for cheese was firm but prices were again steady. Choicest September Ontarios were 16%c. to 17c. per lb., while October makes were 16%c to 16%c, per lb. Colored and white were on a parity.

Grain .- The wheat market was fluctuating widely. White oats were firm, at 651c. to 66c. for No. 2; 641c. to 65c. for No. 3; 1c. less for No. 4 per bushel, ex store. Canadian Western were steady, at 71c. for No. 3; extra No. 1 feed were 71c., and No. 1 feed were 70c, and No

Buffalo.

THE FARMER'S ADVOCATE.

Cattle .- Buffalo has not witnessed as bad a cattle market in many moons as was experienced last week. To begin with, Eastern killers were loaded to the guards with both dressed beef and live cattle. Steers were laying around awaiting slaughter several days afterwards, and New York especially reported about as bad a situation as has prevailed there in many months. Industrial conditions continued bad, large numbers of laborers are out of employment, the bread - lines are being added to in numbers each day, and general conditions are very unfavorable. Added to this, is the fact that on account of the quarantine and the inclination to ship as soon as counties are released, are a large number of medium-fat steers being rushed to market, with very few that are well finished. Last week on Monday, around sixty cars of this class of steers were offered. Some of the big killers wanted no cattle at all, others would take a few loads if they could get just what they wanted and at their prices. Competition was so light that sellers generally wound up by accepting the bidder's price, and this represented on Monday a decline of mostly 25c. to 35c. Days following Monday, when a number of loads of shipping steers went over, showed even worse conditions, and by Friday prices were showed a full halfdollar to, in some cases, as much as seventy-five cents take-off, as compared with a week ago, and in plenty of cases on a medium and warmed-up kind of steers it looked as much as a dollar On medium and common butchering stuff the trade was not so bad, most of the medium and decent kinds of butchering cattle bringing within a dime to fifteen cents of the previous week, while canners and cutters and commonish kinds of bulls looked about steady. With Pennsylvania being unable to buy here, heavy bulls took a full quarter tumble in prices Best steers offered the past week ranged from \$8.50 to \$8.75, with a load of good, fat Canadians running at \$8.25. Best handy steers sold from \$7.50 to \$7.80, yearlings making \$8.10. Receipts were 3,800 head, as against 4,875 head for the previous week, and 3,775 for the same period a year ago. - Quotations Choice to prime native shipping steers, 1,250 to 1,500 lbs., \$8.25 to \$8.50; fair to good shipping steers, \$7.75 to \$8 plain and coarse, \$7.25 to \$7.75; Canadian steers, 1,300 to 1,450 lbs., \$8 to \$8.25; Canadian steers, 1,100 to 1,450 lbs., \$7.50 to \$7.75; choice to prime handy steers, natives, \$7.50 to \$8; fair to good, \$7 to \$7.50; light common, \$6 to \$6.50; yearlings, \$7.75 to \$8; prime. fat, heavy heifers, \$7.25 to \$7.40; good butchering heifers, \$6.50 to \$7; light butchering heifers, \$5.50 to \$

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as compared with 32,365 head the week before, and 39,400 head for the same week a year ago.

Calves .- Approximately 1,496 head were marketed the past week, being against 1,819 head the previous week, and 1,373 head a year ago. Top yeals the first four days ranged from \$12 to \$12.50 with culls \$9.50 down, and Friday best veals jumped up to \$13 and \$13.25, with throwouts going from \$10 down. General range on fed calves the past week was from \$5 to \$6.

Gossip.

Some confusion has arisen among our readers in relation to the advertisement of Hervey Smith. The Holsteins and Shorthorns advertised are not pure-breds They are grades.

A catalogue setting forth the breeding of the animals that will be offered by F E. Pettit at his sale on Wednesday, March 10, 1915, is ready for distribution. A card addressed to F. E. Pettit, Burgessville, Ont., will insure one of these catalogues being sent to you.

Fungus and insects must be fought, and it is not too early now to begin making preparation for an onslaught on these troublesome pests. The Ontario Seed Company Successors are awake to this fact, and have made their announcements on page 271 of this issue.

R. M. Holtby, Port Perry, R. R. No. 4, writes "The Farmer's Advocate" that he is going to devote his attention entirely to Holsteins, and is consequently offering for sale his Clydesdale stallion, Acme (imp.), by Baron's Pride. He stood eighth in the breeding list in Scotland Mr. Holtby writes that he is sound, sure, right, and broken to harness. He is also offering Torr's Type (imp.), rising five years.

Attention is called to the advertisement in this issue of T. I. Thomson, Ltd., Owen Sound, of Langford Horse Collars. This is an entirely new collar in the Canadian market, although the great success of the collar is assured by the fact that over one million collars were sold in the United States alone in 1914 This collar is sold at a popular price, viz.-\$1.75. The usefulness and price should make a strong appeal to the farmer.

SALE DATES CLAIMED. Feb. 24, 1915.-S. E. Flindall's Shorthorn sale. Brighton, Ont. Feb. 25, 1915.-McConkey's Holstein

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FEBRUARY

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of these : "I send Hope you more."-Alli Ont.

We take the

Montreal.

Live Stock.-The past week was uneventful so far as the market for live stock was concerned. Demand was fairly good all the way round, but the scarcity of choice steers still manifested itself, and the bulk of the stock offering was of a somewhat inferior grade. Good steers were selling at $7\frac{1}{4}c$, to $7\frac{1}{2}c$, per lb., and medium quality was 612c. to 712c., common stock ranged down to 6c., and fractionally less. Cows and bulls were also of a somewhat inferior grade, and prices ranged from 41c. to 61c. per 1b., to include all qualities, except canning stock. the latter ranging generally from 34c. to 41c. per 1b. Demand for sheep and lambs was very fair, and supplies were none too large. Ontario lambs were bringing 84c. to 84c., Quebec stock being about 1c. less. Sheep sold at 41c. to 54c. per lb. Calves showed practically no change, ordinary grades selling at \$5 to \$6 each, and better qualities up to \$12 each. A fairly active trade was going on in hogs, and selects sold at 51c. to 5%c., while heavies brought about 1c. to §c. less, weighed off cars.

Horses.-Farmers were still in the market for horses, but the demand was not at all active, and supplies were ample. Mostly cheap horses ranging around \$125 to \$150 were asked for. Heavy draft native, \$7 to \$8.60.

2 feed, 69c. American corn was for No. 3 yellow, and Argentine, 871c to 88c.

Flour.-Flour again advanced. Ontario: were \$8.30 per barrel in wood, and \$7.80 to \$8 for straight rollers, bags being \$3.75. Manitoba first patents were \$8.10; seconds, \$7.60, and strong bakers', \$7.40 in jute.

Millfeed.-Feed was also bringing higher prices. Bran was \$27 per ton in bags; shorts, \$29; middlings, \$32 including bags. Mouille sold at \$36 to \$37 per ton for pure, and \$33 to \$34 for mixed. Hav.-Hav was easier. No. 1 pressed hay, Montreal, ex track, was \$19.50 to \$20 per ton; No. 2 extra was \$18.50 to \$19, and No. 2 was \$17.50 to \$18.

Hides .- Beef hides were 18c., 19c. and 20c. for Nos. 3, 2 and 1, respectively. Calf skins were 16c. and 18c., and sheep skins were \$2 each. Horse hides were \$1.50 for No. 2, to \$2.50 each for No. 1 Tallow was 6c. per lb. for refined, and 2c. to 21c. for crude.

Seeds.—Dealers were offering \$7 to \$8.50 for timothy per 100 lbs., and \$7.50 to \$9.50 per bushel of 60 lbs. for red clover, and \$7 to \$9 for alsike, at shipping points.

Chicago.

Cattle.-Beeves, \$5.45 to \$8.70; cows and heifers, \$3.15 to \$7.75; calves, \$7 to \$10.25.

Hogs.-Light, \$6.60 to \$7; mixed, \$6.65 to \$6.90; heavy, \$6.50 to \$6.90; rough. \$6.50 to \$6.60; pigs, \$5.50 to \$6.85; bulk of sales, \$6.75 to \$6.90.

Sheep and Lambs .- Sheep, native, \$6.25 to \$7; yearlings, \$7.25 to \$7.50; lambs,

heavy, fat cows, \$6.25 to \$6.50; good butchering cows, \$5,50 to \$6; medium cows, \$4.50 to \$5; cutters, \$4.25 to \$4.50; canners, \$3.50 to \$4; best bulls. \$6.75 to \$7; good killing bulls, \$6 to \$6.25; light bulls, \$4.75 to \$5.25.

Hogs.-Market was on the up-and-down order last week, prices being higher one day and lower the next. On the opening day of the week, best grades sold at \$6.95 and \$7, with lights bringing up to \$7.15, and Tuesday, packers' grades sold from \$7 to \$7.10. Wednesday no light hogs brought above \$7.10, pigs going mostly at \$7, and packers got their kinds from \$6.90 to \$7, while Thursday best grades moved from \$6.80 to \$6.95, and, while Yorkers reached \$7, huyers got most of the pigs down to \$6.75. Friday's run figured 25 loads, and values were 20c. to 25c. higher, best grades being landed mostly at \$7.15, with the bulk of Yorkers, lights and pigs going at \$7.20, few pigs reaching \$7.25. Receipts the past week figured 36,185 head, being against 60,107 head the previous week and 28,800 head for the same week a

Sheep and Lambs .- On the opening day last week top lambs reached up to \$9.60 and \$9.65, and the next four days values were considerably lower, buyers getting best handy lambs Friday down to \$8.75. Cull lambs the fore part of the week sold up to \$8.75, and the last day or two sales on these were made from \$8.25 down. Sheep were active all week, and prices on these were firm. Choice wether sheep made \$7.25, and while some very desirable ewes sold up to \$7, most of the ewes went from \$6.75 down, it taking a handy kind to bring above \$6.50. Receipts the past week totaled 28,190 head,

8

Feb. 25, 1915.—A Watson & Thomas, Ont.; horses and Holsteins. March 3, 1915 .- F. H. Joness' sale of Holsteins, at Bowmanville, Ont.

Sale, Straffordville, Ont.

March 3, 1915 .- Annual Provincial Sale of pure-bred stock (beef breeds), at the Winter Fair Buildings. Guelph, L. M Duff, Guelph, Secretary.

March 3, 1915 .- Richard Clarke, Atwood, Ont.; Holsteins and Clydesdales. March 9.-W. H. Mancell's sale of Clydesdales, etc., Fletcher, Ont.

March 10, 1915.—Dispersion sale of pure-bred Holsteins, F. E. Pettit, Burgessville, Ont.

March 24, 1915 .- Oxford District Holstein - breeders' Club, W. E. Thomson Sec.-Treas., Woodstock, Ont.

Thirty-four British aeroplanes, on Feb 12th, raided Zeebrugge, Ostend and Blankenberghe, with a view to preventing the development of submarine bases, and are reported to have done considerable damage by dropping bombs. All the airmen returned in safety. Claude Graham-White fell into the sea with his machine, but was rescued by a French vessel. . On the same day, five French aviators dropped bombs on the German military aerodrome at Hascheim.

Special taxes have been proposed by the Minister of Finance to raise an additional Among the proposals are \$30,000,000. an all-round increase of 71 per cent. in the general, and 5 per cent. in the British preferential tariff, and the abolishing of the free list except for certain specified articles, every letter and post card to bear a one-cent war stamp. bills of lading a two-cent stamp, and postal notes one cent. An extra tas will be placed on wines and champagne.

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> "Success Stella, Ont

"Yours is needy and you may h Ward, Kirk

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Russell, Ke Wm. Ma sends an Burns :

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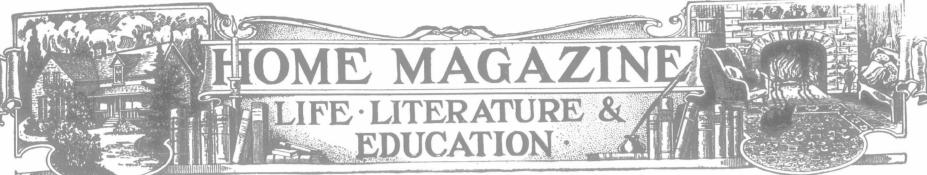
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THE FARMER'S ADVOCATE.



Self-sacrifice.

By Samuel Waddington. what though thine arm hath conquered in the fight,-

What though the vanquished yield unto thy sway, Or riches garnered pave thy golden

way, Not therefore hast thou gained the sov-

ran height Of man's nobility ! No halo's light

sacred ray; If these be all thy joy,-then dark thy

day, and darker still thy swift approaching

night !

But if in thee more truly than in others Hath dwelt love's charity;--if by thine aid

Others have passed above thee, and if thou.

Chough victor, yieldest victory to thy brothers,

Though conquering conquered, and a vassal made,-Then take thy crown, well mayst thou

wear it now.

"The Dollar Chain".

"The Dollar Chain," through which the readers and subscribers of "The Farmer's Advocate and Home Magazine'' are able to help so greatly the suffering in Europe, continues to lengthen. From every part of Canada expressions of sympathy with and approval of the scheme are arriving. We take the liberty of publishing a few of these :

"I send my contribution heartily. Hope you may reach the \$30,000 or more."-Allison Peacock, Woodbridge, Ont.

"I pray your fund for the soldiers and sufferers may reach a million dollars." Miss R. Wylie, Mountain, Ont.

to those who unfortunately do not come within the military standard, and to neutral peoples. The sacred duty and privilege of every physically-fit Canadian is to offer his services (giving his life if necessary) to assist in the destruction of military despotism, and to re-establish international good faith. As for the rest of us, we can but stay up the hands of our leaders in every way possible. Your Dollar Chain is one way, and I am From these shall round thee shed its pleased to contribute."-J. N. Chambers, Woodstock, Ont.

Amounts over \$1.00 :--

J. H. Morrison, Seaforth, Ont., \$2.00; Rudolf Thomsen, Carling, Ont., \$2.00; John A. Beckett, Smith's Falls, Ont., \$2.00; Alfred G. Smyth, Vittoria, Ont., \$2.00; Mrs. Wilson Henry, Spencerville, Ont., \$2.00; "A Friend," P. O. not given, \$2.00; "A Shut-in Friend," Berlin, Ont., \$2.00; "Quilp," Merlin, Ont., \$5.00; E. Herbert Smith, Blenheim, Ont., \$2.00; Wm. Thorn, Reaboro, Ont., \$3.00; "One of Your Readers," Newbury, Ont., \$5.00; Mac E. Coburn, Puslinch, Ont., \$3.00; "W. T.," Cayuga, Ont., \$5.00; Wm. R. Reid, Blytheswood, Ont., \$1.50; "R. W. G." and Family, Oshawa, Ont., \$15.00; "D. D. S.," Huron Co., Ont., \$2.00; Russell Ballentyne, St. Paul's Station, Ont., \$2.00; · Louise Sissons, Ilderton, Ont., \$2.00; Lillie Wood, Pana, Ont., \$5.00: M. Gentleman, Middlemiss, Ont. \$2.00; Wm. J. Harper, Oak Bay Mills, Que., \$5.00.

Contributions of \$1.00 each :--

F. Jarv, Ilderton, Ont.; P. Jary, Ilder-Cobourg, Ont.; John W. Clifford, Put-Ont.; "A Friend," Navan, Ont.; "A. T.

tant, it may, to a large extent, be left Unknown Quantity." Bailieboro, Ont. "A Friend," Woodstock, Ont.; Agnes Remington, Mossley, Ont.; Mrs. Johnson, Bickford, Ont.; "A Friend," Newboro, Ont.; Fred W. Muir, Wallenstein, Ont.; Wm. McBain, Gamebridge, Ont.; Miss M. B. MacLeod, Lucknow, Ont.; Jas. E. Manson, Clayton, Ont.; Mrs. J. H. Mayhew, Combermere, Ont.; Wm. Partington, Magog, Que.; Mary McLennan, Summerstown Station, Ont.; Mrs. Wm. R. Reid, Blytheswood, Ont.; J. N. Greenlees, Alliston, Ont.; "J. S. H.," King, Ont.; 'M. L.," Burford, Ont.; "A Contributor," New Hamburg, Ont.; H. Orchard, White's Cove, N. B.; "Jack," Vellore, Ont.; A. A. Rogers, Woodford, Ont.; Arthur Bell, Ora Station, Ont.; "M. H.," Elgin Co., Ont.; Wm. Summers, Copetown, Ont.; "D. C.," Brantford, Ont.; "J. G.," Brantford, Ont.; Master Stanley Henderson, Blair, Ont.; George McLaren, Franktown, Ont.; Mrs. Archie Graham, Grenville, Que.; Mrs. E. McCallum, Kingston, Ont.; Geo. A. Mumley, Stirling, Ont.; Hugh Weir, Elphin, Ont.; J. C. Reid, Varna, Ont.; Mrs. J. C. Reid, Varna/ Ont.; Geo. Ferris, St. Williams, Ont.; R. W. Ballah, St. Thomas, Ont.; Mrs. R. W. Ballah, St. Thomas, Ont.; "E. R.," P. O. not given; "Billie," Canfield, Ont.; Mrs. Detwiller, Monkton, Ont.; J. W. Hatch, Dryden, Ont.; J. A. Lawson, London, Ont.; "Farmer Boy," Uxbridge, Ont.; John Studiman, Branchton, Ont.; S. Cameron, Pembroke, Ont.; Wm. Read, Cargill, Ont.; H. W. Scovil, Queenston, N. B.; E. Gilbert, Kimberley, Ont.; A. C. Wilson, Oakville, Ont.; M. McNaughton, Ilderton, Ont.; Mrs. W. S. Jamieson, Dutton, Ont.; John Buskin, Markdale, Ont.; Mr. Frank Hellyar, Rothsay, Ont.; Mrs. Frank ton, Onu; Dr. F. H. Mitchell, Komoka, Hellyar, Rothsay, Ont.; Jno. Broadfoot, Ont.; Jack Lea, Victoria, P. E. I.; Jas. Brussels, Ont.; W. R. Broadfoot, Brus-R. Bain, Loring, Ont.; Glen H. Benson, sels, Ont.; Alex. Thomson, North Gower,

Browsings Among the Books.

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EXTRACTS FROM "KING ALBERT'S BOOK."

["King Albert's Book," produced in aid of the Daily Telegraph Belgian Fund, is truly a remarkable volume, beautiful to eye and touch, strong in its appeal to the heart. Edited by Mr. Hall Caine, contributed to, without charge, by nearly all of the foremost statesmen, clergymen, writers, artists and musicians in the world, it forms a vast and impressive monument to the greatness of "Little Belgium" and her heroic king. Already half a million volumes have been ordered, and all the proceeds go to the help of the Belgians, whom it is an honor to help during these long months of their adversity. The book is published in Canada, by Hodder & Stoughton, 17 Wilton Ave., Toronto, at the the low price of \$1.25 net.]

"It is our first duty to relieve their sufferings as far as possible, and when their territory is once more free from the invaders, to help them to restore their devastated cities."-Sir Thomas Brock, British sculptor.

"We must ease the strain upon Belgium by every means in our power."-A. C. Benson, C. V. O., English essayist.

"Belgium counted upon us; she has not counted in vain; we remain true to our word. The righting of her wrongs has become our sacred duty."-Lord Reading, Lord Chief Justice of England.

. . . .

"The needs of the Belgians appeal to all lovers of their fellow-men."-Dr. Lyman Abbott, American divine, editor of "The Outlook."

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"No more woeful and terrible spectacle of a country in utter desolation ever came from earthquake, eruption or other of Nature in her wrath

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'Please find \$1.00 from mamma and me to help your Dollar Chain. It is a My Daddy has gone to grand scheme. the front, too."-Agnes Remington, Mossley, Ont

"Success to our arms."--"A Patriot," Stella, Ont.

"Yours is a noble effort to help the needy and our protectors, and I trust you may have unbounded success."--Wm. Ward, Kirkton, Ont.

"I wish you all successmin your commendable and much-needed effort on behalf of the brave sufferers."-A. F. Cameron, Pembroke, Ont.

"I think the Dollar Chain is a splendid idea, and I am only too pleased to be able to help in a small way."-Fred Russell, Kerwood, Ont.

Wm. Mackintosh, Southampton, Ont. sends an appropriate quotation from Burns :

The ane wha feels our deepest needs Recks little how men count their deeds, For righteousness is not in creeds or solemn faces,

But rather lies in kindly deeds and Christian graces."

"For the help of brave, martyred Belglum."-Louise Sissons, Ilderton, Ont.

"As the leading agricultural paper of the Dominion, it is seemly that "The Farmer's Advocate'' should inaugurate a campaign among its subscribers to make somewhat easier the conditions for the 'man at the front.' Your appeal should receive enthusiastic support from all.

"While the producing of food is impor-



Tired Out.

A Russian infantry regiment resting in a small Galician village after desperate marching and fighting .- Photo, Underwood & Underwood.

nam, Ont.; Mrs. Wm. Battle, Sarnia, Ont.; C. Wood, Seaforth, Ont.; L. Rabbits, Seaforth, Ont.; "Charlie, Douglas, and Allan," Fenelon Falls, Ont. ("To buy milk for the Belgian babies"); "M. M. D.," Carleton €0.. Ont.; May and Clara McDermid, Batteau, Ont.; "Leeds County" Contributor; "R. M.," Carleton Place, Ont.; Mary I. Gates, Kingston, Ont.; James R. Gates, Kingston, Ont.; Francis Durrant, Mitchell, Ont.; Wm. C. Strong, Maplewood, Que.; D. McAleer, Balaclava, Ont.; Mrs. S. Kyle, Chesterville, Ont.; Eric S. Purvis, Ethel, Ont.; M. Spencer, Wilton Grove, Ont.; "A Reader," Kintore, Ont.; "An

B.," Westminster, Ont.; Percy Marchbank, New Annan, P. E. I.; Chas. M. Shore, Wilton Grove, Ont.; "H. B.," Thornhill, Ont.

Miscellaneous Amounts :--

Magazine," London, Ont.

Little Marjory C. Weir, Elphin, Ont., 25 cents; Little Laura Mae Reid, Varna, Ont., 25 cents.

Previously acknowledged..... \$261.75

Total up to Feb. 12th\$418.25 "The Farmer's Advocate and Home

has been produced in Belgium by the hand of man. A complete nation is in ruins. A whole country is in ashes. An entire people are destitute, homeless, and on the roads. A little kingdom, dedi-novelist.

.

"The Belgians have won for themselves the immortal glory which belongs to a people who prefer freedom to ease, to security, even to life itself. We are proud of their alliance and their friendship. We salute them with respect and with honor. Belgium has deserved well of the world. She has placed us under an obligation, which, as a nation, whe shall not forget. We assure her to-day in the name of the United Kingdom and of the whole Empire, that she may count to the end on our wholehearted and unfailing support."-Premier Asquith.

. . . .

"A small nation found herself suddenly confronted by one of the most formidable armies in the world. They asked of her merely permission to pass through; they would restore to her, so they said, her territory untouched; they would respect her independence. Would they have done so? I know not, but the small nation was free to believe them. And if she had declared that she yielded to force and accepted the inevitable, we might have pitied, but we should not have dared to blame. Far otherwise ! She Kindly address all contributions to has resisted what seemed irresistible; she has sacrificed at once all that she had, all that she was : her towns and her

THE FARMER'S ADVOCATE.

villages, her wealth and her life, she has given all for an idea, for the heroic belief that it was done for honor. Glory Glory to her king !"-Henri to her ! Bergson, French Professor of Philosophy.

. . . .

"At evening in one of our southern towns, a train full of Belgian refugees ran into the station, and the poor martyrs, exhausted and bewildered, got out slowly, one by one, on the unfamiliar platform, where French people were waiting to receive them. Carrying a few possessions caught up at random, they had got into the carriages without even asking whither they were bound, urged by their anxiety to flee, to flee desperately from horror and death, from unspeakable mutilation and sadic outragefrom things that seemed no longer possible in the world, but which, it seems, were lying dormant in pietistic German brains, and had suddenly belched forth upon their land and ours, like a belated manifestation of original barbarism. They no longer possessed a village, nor a home, nor a family; they arrived like jetsam cast up by the waters, and the eyes of all were full of terrified anguish. Many children, little girls whose parents had disappeared in the stress of fire and battle; and aged women, now alone in the world, who had fled, hardly knowing why, no longer caring for life, but moved by some obscure instinct of self-preservation.

"Two little creatures, lost in the pitiable throng, held each other tightly by the hand, two little boys, obviously brothers, the elder, who may have been five years old, protecting the younger, of about three. No one claimed them, no one knew them. How had they been able to understand, finding themselves alone, that they too must get into this train, to escape death ? Their clothes were decent, and their little stockings were thick and warm; clearly they belonged to humble but careful parents; they were, doubtless, the sons of one of those sublime Belgian soldiers who had fallen heroically on the battle-field, and whose last thought had perhaps been one of supreme tenderness for them.

"They were not even crying, so overcome were they by fatigue and sleepiness: they could scarcely stand. They could not answer when they were questioned, but they seemed intent, above all, upon keeping a tight hold of each other. Finally the elder, clasping the little one's hand closely, as if fearing to lose him, seemed to awake to a sense of his duty as protector, and, half asleep already, found strength to say, in a suppliant tone, to the Red Cross lady bending over him : "Madame, are they going to put us to bed soon ?" For the moment this was all they were capable of wishing, all that they hoped for from human pity to be put to bed. "They were put to bed at once, together, of course, still holding each other tightly by the hand, and nestling one against the other, they fell at the same moment into the tranquil unconsciousness of childish slumber. "Once, long ago, in the China Sea, during the war, two little frightened birds, smaller even than our wrens, arrived, I know not how, on board our iron-clad, in our admiral's cabin, and all day long, though no one attempted to disturb them, they fluttered from side to side, perching on cornices and plants. "At nightfall, when I had forgotten them, the admiral sent for me. It was to show me, not without emotion, the two little visitors, who had gone to roost in his room, perched upon a slender silken cord above his hed. They nestled closely together, two little balls of feathers, touching and almost merged one in the other, and slept without the slightest fear, sure of our pity. And those little Belgians sleeping side by side made me think of the two little birds lost in the China Sea. There was the same confidence, and the same innocent slumber;-but a greater tenderness was about to watch over them."-Pierre Loti. French novelist.

rumble of a relentless approach drew every moment nearer. The young officer, marching his little company rapidly along the deserted streets, crossed a cobbled square, and came upon a municipal building temporarily converted into a hospital.

He stepped within.

"Any men here able to march?" he began-then paused abruptly and looked around him.

There was no question of stragglers here. Scores of wounded and of dying lay helpless upon the floor, each where he had been hurriedly placed.

A little party of British Red Cross nurses moved among them, doing their utmost to tend, relieve, and comfort. While the tall youth in khaki stood



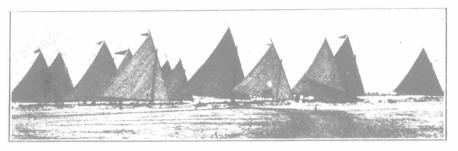
Kneeling there, with the dying boy's head upon her arm, she looked steadily at him, and it struck him that he had never before met eyes so full of a calm and steadfast courage. "We are all right," she said, slipping

a folded jacket beneath the head she was supporting: "quite all right - doing famously !"

But the next moment she was beside him in the doorway, and had caught him by the arm.

"Don't go !" she whispered. "For God's sake, don't go ! I need help; and you must help me.

"Do you want to get out of this?" asked the young officer, speaking hurriedly, and very low.



Good Winter Sport. A line-up of some of Toronto's ice-boats.

silent in the doorway, a shell shrilled over the building, crashed into a house close by, and burst with a deafening noise. A moment of tense silence. Then a Tommy laughed.

"It'll save the doctors trouble if a few of them things come in here," he said. "Do our amputating for nothing, they will !" The Sister in charge of the little band of English nurses chanced to be kneeling near the door, supporting the head of a dying lad. He pushed away the cup she was holding to his lips and gazed into her face, sudden terror in his it before you go. eyes.

"They won't shoot on the Red Cross, will they, nurse ?" he whispered. "Ain't we safe under the flag ?"

Her quiet smile was reassuring. "Perfectly safe, my lad. Don't you worry. Drink this, and lie still.'

Then, looking up she saw the young officer standing in the doorway. He raised his hand in salute.

"I suppose there is nothing I can do." "I am rounding up stragglers he said. and marching them out. But nobody thought. All the man in him awoke,

The Englishwoman looked at him. "Oh, I say, I beg your pardon ! Of course I know you wouldn't leave them. Tell me how I can help. What can I do ?''

''Listen,'' she said. "There is not a moment to lose. Did you notice the roof of this building as you crossed the square? There's a flagstaff and cord, all complete, but no flag. Do you understand? No Red Cross flag. And the Germans are beginning to shell the town. You must find a Red Cross flag and hoist

The young officer stood beside her, uncertain, perplexed, dismay in his honest eyes.

"I'm awfully sorry," he said. "But I have no Red Cross flag, and for the life of me, I don't know where to get one."

"Then you must make one," she urged. "We have over a hundred wounded men under this roof." She shook him by the sleeve. "Can't you contrive something? Can't you MAKE me a Red Cross flag?" The boy stood for a moment in stern here could do any marching. Shall I eager to meet this woman's desperate Florence L. Barclay.

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need. His eye travelled slowly round the bare, unfurnished hall. At length it rested on the floor. Suddenly he started. She saw him hesitate. Then his face g?rew firm and purposeful.

"Give me half a sheet," he said, "and some bandages.'

He helped her to tear the sheet in two. At the sound of the sharp rending, many eyes turned their way.

He spread the sheet upon the floor, and held out his hand for the bandages. "Give me some pins," he said, huskily, plenty of them. Then leave the rest to me. This is my job."

All at once she knew what he was going to do; and she, who had times without number faced unspeakable sights without flinching, turned away while, stooping, he dipped the bandages in the blood which lay in pools upon the floor. When she looked again, he was on his knees, carefully pinning the crimson strips across the white sheet.

Her hand flew to her throat, striving to control an irrepressible sob.

And now . . . as he knelt in his stained khaki, dying eyes watched, in the quiet calm of a strange detachment. the making of that Red Cross flag. Wounded men rolled over, raised themselves on their elbows, and smiled in grim approval.

After that one choking sob she also smiled bravely back at them. Her flag was ready.

"Now, then ! He rose to his feet. Show me the way to the roof, please No-I can carry it. No need for you to touch it. Sister. This is my show.'

She stood beside him on the roof. As he drew the cord taut and fastened it, the breeze caught and unfurled the heavy folds of the sheet, and, slowly opening out, the Red Cross flew, clear and unmistakable, in the sunshine, She laid her hand once more upon the khaki sleeve.

"God bless you," she said, a tremor of emotion in her quiet voice. "And when you write home, don't forget to tell your mother of this thing which you have done.'

Half an hour later, as he marched his men, under cover of a wood, over the crest of the hill, the young officer stepped out for a moment into a cleaering and looked back upon the little town.

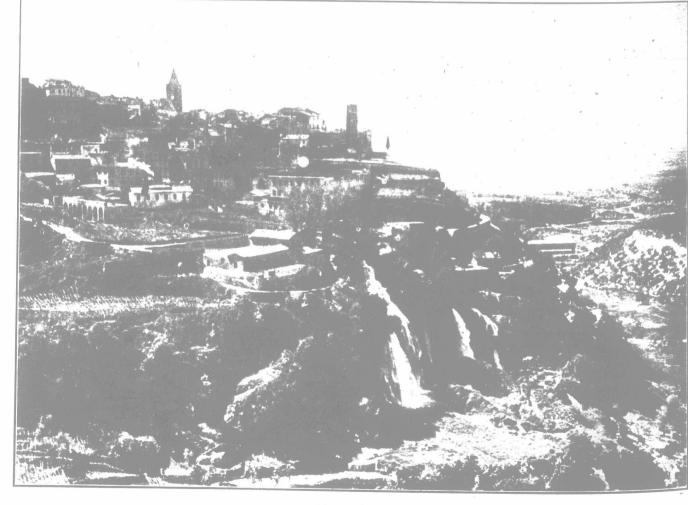
German shells were falling to right and left; but above the hospital flew the Red Cross flag, brave in the breeze, bright in the gold of the sunset: and the wounded lay beneath, sheltered by the crimson of their own life-blood .- A true story, by

farm homer ed the first skeptics sai diversion, 1 That was s the Women' membership and many ization. N the movem Province of it shown su activity as Unlike organizatio almost ent most of th time for and their are going home and their effort practical that is als perseveranc fice during gan. We socks and of clothing the Red C they have but figures fact that I from the settled dis of the pio is still wo zation of Impossible rural dist oughly. While t Women's 1 home and the scope from these possibilitie and little has led qualified ture course nursing ar ment, and The cial litera tutes on vices in t interest a The earl of tea ar gramme o a broad The popul. life of the where the but the beyond th selves. neighborh pianos in reading - r courts, ar young peo amusemen ble for th tute, with gymnasiur where soc A matro place is a rendezvou for public Most o mothers, of their o ranks full motherhoo been perh ture of th urally, mo public sc been impr gardens lighting. fountains and super given, wh dental scl

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During the masterly retreat of the allied forces after the battle of Mons, a young British officer was ordered to round up stragglers in a small town, which had just been evacuated by our troops.

There was no time to lose. The enemy overwhelming force, was sweeping town upon the defenceless place. Shells



Tivoli, Italy. One of the cities that suffered in the recent earthquake .-- Photo, Underwood & Underwood.

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Special Work of the Women's Institutes of Ontario.

having a woman's organization for the farm homemakers of Ontario and founded the first society at Stoney Creek, the skeptics said, "It's a pleasant enough diversion, but it will soon die out." That was seventeen years ago. To-day the Women's Institute of Ontario has a membership of 25,000, with 840 branches and many places about ready for organization. What is quite as important, the movement has been extended to every Province of the Dominion, and never has it shown such intelligent and enthusiastic activity as during this last year.

Unlike almost any other women's organization, the Institute is composed almost entirely of homemakers who do most of their own work. They have no time for interests outside their homes and their families unless these interests are going to benefit some other women's home and family. Perhaps that is why their efforts have been so serious and practical and well directed. Perhaps that is also why they have shown such perseverance and unity and ready sacrifice during the months since the war began. We might quote the numbers of socks and shirts and pillows, and bales of clothing and provisions forwarded to the Red Cross and Patriotic Societies,they have run up to amazing figures,but figures do not mean so much as the fact that nearly every branch responded, from the most prosperous of the old settled districts to the poorest hamlet of the pioneer north, and every branch is still working. Without some organization of this kind it would have been Impossible to reach the people of the rural districts so promptly and thoroughly.

While the primary objects of the Women's Institute were to improve the home and social life of the farm women, the scope of the work has broadened from these beginnings to undreamed - of possibilities. The exchange of recipes and little talks on housekeeping methods has led to a systematic study under qualified teachers. Demonstration - lecture courses in cooking, sewing and home nursing are arranged for by the Department, and the work is developing rapid-The Department is also having special literature prepared for the Institutes on the health value and prepara-

THE FARMER'S ADVOCATE.

districts promises to be one of the most important child-welfare movements that of country cemeteries. has ever come to the country.

The influence of the Women's Institute in an educational way is being felt in When a woman conceived the idea of every district, perhaps not so much where they have taken up reading courses and study of literary works, as where they have established or improved public libraries, or brought high-class entertainments and lecturers to the village. In most sections it is possible to get excellent material from local talent, and the Institutes excel in getting the cooperation of every specialist or professional person in the district. Especially has this been helpful in getting demonstrations in horticulture, bee culture, Several Institutes have taken adetc. vantage of the University Extension Lectures, and a few have worked through the local school board to form technical classes for the people.

It has been gratifying to note that in Institute contributions to philanthropic organization. causes have increased. Grants to hos

be neglected, is the care and beautifying

It is almost impossible to outline the scope of the various lines of work undertaken and carried out successfully by the different branches of this organization. In one town, the special feature is a neighborly and uplifting attention to the foreigners. In a few Institutes, where most of the members are farmers' wives, co-operative egg circles have been formed. Several Institutes have made a specialty of helping with the fall fairs, and of holding Institute fairs to encourage various lines of domestic art and to raise money for philanthropic causes. In some places this winter the Institutes have found all they could do to take care of the needy families in their own locality, and no work could be more important than this. The special lines of work to undertake are left to the best judgment of the individual societies, and they have proved this year, as never before, the the face of the present hard time, the high ideals and the stamina of their GEO. A. PUTNAM, Superintendent

Saul of Tarsus, fiercely intent on his self-imposed task of persecuting the followers of Christ, was suddenly stopped by the Lord Himself and changed from an enemy into a friend. He was then "out of work"-a sad position for anyone, and most of all for one of his enthusiastic and energetic temperament. He was travelling to Damascus, having started on that eventful journey with the avowed purpose of seizing as prisoners all the Christians he could find. Now that he owned Christ as his Master, of course his old task must be discontinued. He cannot bear to live an idle life, and at once asks for work. He is told to go on his way, and the special work appointed for him by the Great Master will be shown in good time.

Canon Langbridge reminds us that we are all servants seeking work. He says: "It is good to find duties; it is better to have duties find us. Things that are made are well enough, but they are not beautiful as things that grow. I would have duties to come up like daisies in our walks. We rush abroad to knock God's angel up, and all the while he is sitting beside our bed. Duties should not be fetched home in a parcel, nor tinkered together with lath and tacks. They should be a bright creeper, slowly covering the house.'

It is a sad condition to be out of work, to be forced to sit with idle hands in the midst of the rush of the world's business. It is a sad thing to waste our Master's time by being "busy here and there," and yet leaving undone the work He has given us to do. We are all servants, and should be careful to ask our Master each day : "Lord, what wilt Thou have me to lo?" He has work prepared for each of us, to-day and every day; let us try to do His Will even though we may be set the difficult duty of patient suffering, or of joyful trust during the darkness of anxiety.

When the keeper of the prison in Philippi was convinced that JESUS was his rightful Master, he at once showed great kindness to the men he had despised and ill-treated. He did not wait until the morning, but "the same hour of the night" washed their bleeding wounds, took them from their dungeon into his own house, waited on them himself, and rejoiced in the glory of service. He was told to believe on the Lord Jesus Christ and he should be saved; but he knew that any profession of belief would be a mockery unless it blossomed out in obedience. A man who "I believe in Christ !" and then Savs : makes it his chief object in life to win riches or admiration for himself, is evidently not speaking the truth. Saul of Tarsus could not be a real disciple of Christ and yet continue his former task of persecuting the Church. One who



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common foods, labor-saving vices in the home, and other topics of interest and value to the housekeeper.

The early meetings together for a cup of tea and some little pleasant programme of entertainment, have developed a broad community of neighborliness. The popular printed idea of the "isolated life of the farm woman'' has no meaning where there is a live Women's Institute, but the movement has extended away beyond the limits of the members themselves. It has led to the planning of neighborhood entertainments, to putting pianos in public halls, to establishing reading - rooms, skating rinks, tennis courts, and swimming pools, to keep the young people from undesirable places of amusement. In one town it is responsible for the founding of a People's Institute, with rest - rooms, a reading - room, gymnasium, kitchen, and assembly hall. where socials and meetings may be held. A matron is kept in charge, and the place is a pleasant, wholesome, evening rendezvous, as well as a convenient place for public entertainments.

Most of the Institute members are mothers, but whether they have children of their own or not, we have found the ranks full of women with the universal motherhood spirit, so child welfare has been perhaps the most outstanding feature of the last few years' work. Naturally, most of this work is done through public schools. School grounds have been improved, school fairs and school gardens encouraged: proper seating, lighting, heating, and sanitary drinking fountains secured, bells, pictures, games, and supervised playgrounds have been given, while the bringing of medical and dental school inspection to the rural

A Girl in Serajevo, the Capital of Bosnia. Serajevo was the scene of the murder of the Crown Prince of Austria - Hungary which precipitated the most terrible war the world has known. For centuries before it was noted chiefly for the loveliness of its surroundings and the

beauty of its women.

pitals, children's shelters, old people's homes, the travellers' aid, and general relief work have not been neglected, even when the demand for the Red Cross and Patriotic Societies was so pressing. Perhaps the civic improvements, which have always been very popular with the Institutes, will receive less attention. although during the past year they have been as enthusiastic as ever in building sidewalks, improving public halls, paying for street lamps and drinking fountains, planting trees in parks, distributing flower bulbs, etc. One Institute last year gave a prize of a ten-dollar lawnmower for the best-kept lawn in the town. Another way in which several Institutes have been doing a much-needed work, and one which we hope will not

Hope's Quiet Hour.

Master and Servant.

And he trembling and astonished said Lord, what wilt Thou have me to do? And the Lord said unto him, Arise, and go into the city, and it shall be told thee what thou must do.-Acts ix. 6

They who tread the path of labor Follow where My feet have trod : They who work without complaining, Do the holy will of God.

-Henry Van Dyke

lly believe to obey and follow Him.

Many people say, mockingly or despairingly, that this war proves the failure of Christianity. It only proves the failure of earth's boasted learning, culture and common sense, and the great need there is of real Christianity in the world. The war was certainly not caused by love to God or love to man, and Love is the Master's great command to His disciples. Those who called themselves by the sacred Name of Christ started the war, but no one would venture to say that it was caused by their obedience to Him. They chose their own will, and terrible ruin and desolation proved what a mistake they made.

What work has been given to us today ? If we keep our eyes on the Divine Master, ready to obey His slightest sign, we shall find out. One very important work of His, which is often neglected, is that of making home the happiest, holiest place on earth for the children. How lovely the homes are where Christ Himself is the honored Guest-as in the home of Martha and Mary. In many houses God is forgotten, and in some the door Is shut in His face. "A little child had been staying in a hospital for sick children in England. When the time for her return to her miserable home arrived, she sobbed out : "Good-bye, God ! I'm going home." She did not think it was possible for her to invite God into such surroundings as she knew awaited her. There are many who provide for the physical and mental needs of their children, who slave and save in order to give them every possible earthly advantage, and yet never teach them to know

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God. How can anyone teach this great lesson unless he has himself learned to know the Divine Master ?

When the fierce persecutor was changed into the willing servant of Christ he discovered that he was in vital connection with the Source of all power. "I can do all things," he declared exultantly, 'through Christ which strengtheneth me." In the R. V. it is translated, "in Him that strengtheneth me." It is by abiding in Christ and having Christ Life always working through him, that a man can work effectively. The branch can only bear fruit while the life of the vine circulates through it. The life is in it, but does not belong to it. So a "live" wire can do great things as long as it is connected with the central source of power. Cut the connection and it is dead and powerless. The power of God, working through a man, can change him from a destroyer into a builder of the Temple. The change is worked secretly, but the results are visible. The connection must be kept up.

" Lord, teach Thy Church the lesson. Still in her darkest hour Of weakness and of danger To trust Thy hidden power Thy grace by ways mysterious The wrath of man can bind, And in Thy boldest foeman Thy chosen saint can find."

Life means growth. To stand still is to decay. If we have worked for our Master in the past we must be on the alert to do better work in the future. To know Christ, and kneel before Him acknowledging Him as Lord, is to be filled with a desire to serve Him. One who is satisfied to live only for his happiness and profit-even though it be spiritual joy and the culture of the soul -"leaving human wrongs to right themselves," is not following in the steps of the Master Who went about doing good, Who healed the sick and preached to the poor.

Who can tell beforehand what great things God is able to do through him? Christ saw the seed of world - wide missionary influence in the man who only intended to destroy the faith. We are so apt to judge only by what we can see that we are sure to make mistakes. Ananias was sent to baptize Saul of Tarsus, and objected because he had done much evil and had come to Damascus intending to do more evil. But the Lord answered his objections by saying : "Go thy way: for he is a chosen vessel unto There is an African proverby to Me.'' the effect that you may be able to count the apples on one tree, but you cannot number of trees 'an we know the latent life and fruit hidden in any seed ? But it is our business to see that the power of God within us does not always remain in the germ stage. We claim Christ as our Master. Are we openly and enthusiastically spending our lives in His service? Do we go to Him daily for special orders. and then try whole - heartedly to carry out His directions ? It is easy to "say' we are Christians, but the world will not be helped by that, unless we also 'show'' by our honesty, kindness, good temper, and other everyday virtues, that the King of Love and Lord of Truth is controlling our lives. We do not choose our Master, He thooses us, as He chose the great Apostle (Acts is.: 15), but we are free to refuse His call. Christ works through yielded lives, for the that would come from Christ full must go to Hum empty ** We should not be wilfully determined to carry out our own plans, but should seek to know our Master's Will and then set



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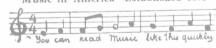
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"The Story Of An African Farm".

"Whimsical ! Extraordinary !"

I laid down the book which I had just finished reading with that mental exclamation and looked at it, still curiously, as it lay there on the table, its title, "The Story of an African Farm," shining in gilt lettering on its blue cover. - They look so quiet - do books-so inanimate, and yet how much of seething life and soaring spirit may be found between two board covers with soft gilt lettering.

Yes, "whimsical." Surely no other word could so fittingly describe the fantastic medley which the pen of "Ralph Iron" had here burned into literature. Picture after picture dashed down with little regard to plan or sequence, or even to the finished working out of character: The vulgar Tant' Sannie splashed on with crude color and Hogarthian directness. The hateful Bonaparte Blenkins, who disappears without having left much reason for his coming. The weird, spiritual Waldo, who never seems of this earth; and Lyndall, the motif of the whole conception, so far as it has a motif,-Lyndall, strong, beautiful, wise in the ways of the world yet defiant of it .- crushed as are those who most defy it, yet rising unconquered in spirit though the body fall wearied, to sleep at the foot of a great lone mountain.

Upon this page a rough naming of sacred things that seems almost blasphemous; upon the next a touch more tender than that of the mother upon her firstborn babe. Here a delicate tinting in of the broad South African veldt until sandy plain and faroff kopie, straggling karroo-bush and faint blue sky, take to themselves forms and fair, faint colorings that must be a part of one's past. . . . There an allegory leading off from earth into that mystic country which only mind and heart can enter, whither aspiration beckons and only the fitful light "that never was on land or sea" shines to illuminate the way of the venturing traveller.

Yes, surely "whimsical,"-fantasticpowerful, fascinating, daring, yet suggestive



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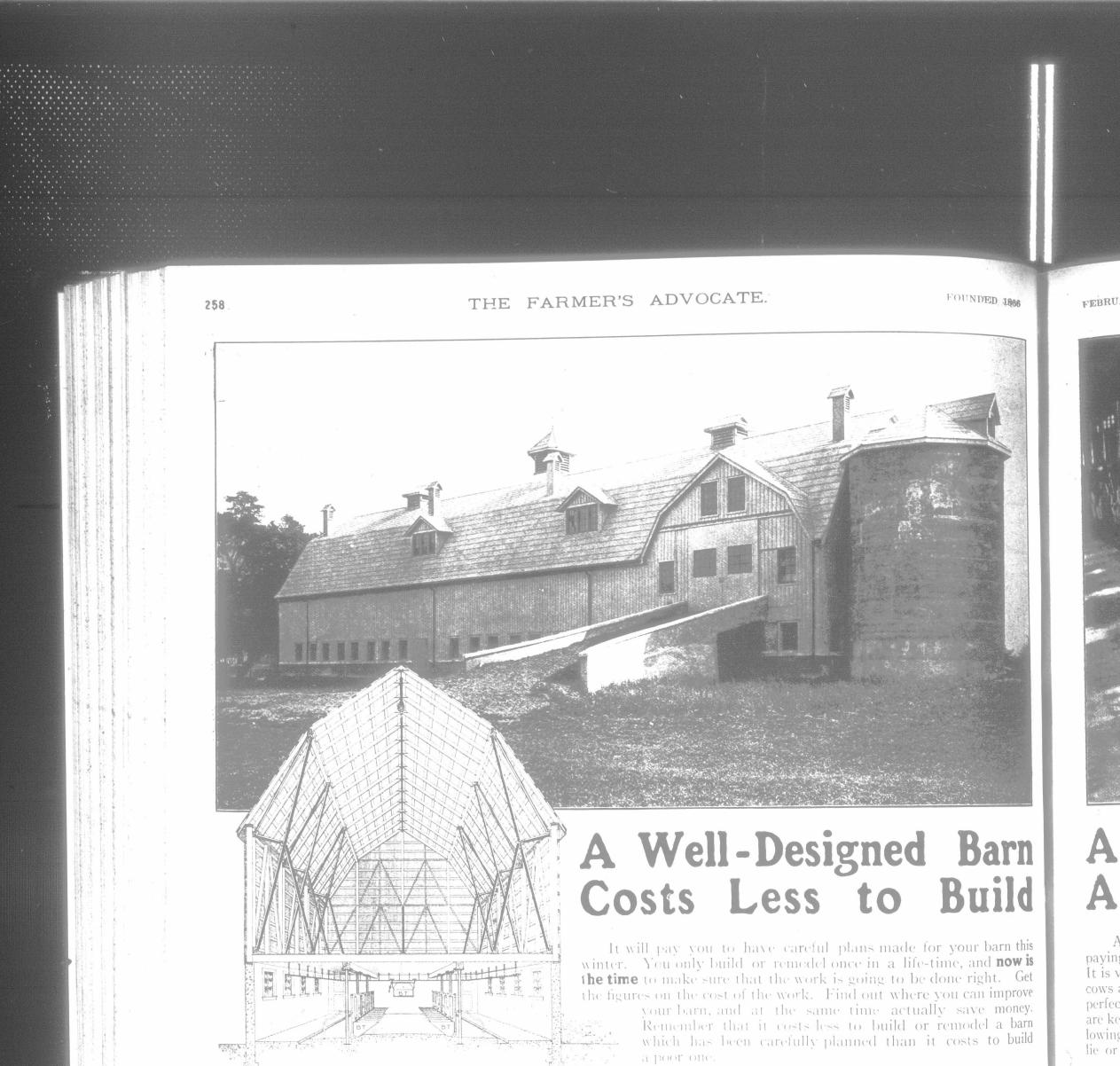
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thought-provoking, with the very sign and seal of genius in its highest flights and a boldness and harshness on the lowest levels that sometimes revolt. At best or at worst never commonplace. At best it is literature of a fine and high quality; at worst it is, perhaps,-life, and it may be that we realize, sometimes, that any tale of any life, provided only that it be absolutely true in interpretation and atmosphere, is literature, as Masefield and some of his school in England are teaching us.

"The full African moon poured down its light from the blue sky into the wide, lonely plain,"-so begins "The Story of an African Farm." "The dry, sandy earth with its coating of stunted 'karroo' bushes a few inches high, the low hills that skirted the plain, the milk-bushes with their long finger-like leaves, all were touched by a weird and an almost oppressive beauty as they lay in the white light." And upon this South African world, swimming with moonlight, appears the moon-child, Waldo, with his silky black hair and black, black eyes, crying out to God to save only a few of the vast multitudes of people all over the world, dying with every tick of the clock.

In all literature there is, perhaps, no more pathetic a picture than that of this intense child placing his little offerings of meat on a flat stone altar out beyond the kopje, asking as a sign from Heaven that it be consumed. It is the child-mind that asks, the child-mind that does not always, alas, die out with the years.



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> This will cost you nothing. We offer this service tree to every farmer who intends building or remodelling. In fact many farmers come to our factory to talk things over with our architects and experts. We have been able to give helpful ideas to other farmers, and have saved them money. Perhaps we can save for you too. Why not write and see? Why not benefit from our

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THE FARMER'S ADVOCATE.

FEBRUARY 18, 1915

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A well-built stable, properly equipped with BT Galvanized Steel Stalls, is a paying investment on any farm. It is sanitary and is a pleasant place to work in. It is very easy to keep clean, for the stalls do not rot or soak up manure. The cows are healthier, because they get more fresh air and sunlight. They are lined up perfectly over the gutter, as shown in the photo above, so their flanks and udders are kept clean. At the same time the swinging stanchions are comfortable for them, allowing them to turn their heads freely, card themselves on any part of their bodies and lie or stand in a natural position. Cow comfort means increased milk production. 259

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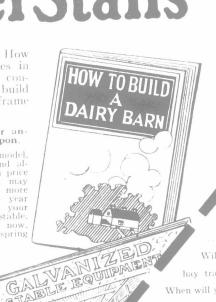
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FOUNDED 1866

Then comes drifting upon the scene, Lyndall, the thinker, as Waldo is the dreamer of dreams and seer of visions,-Lyndall of the beautiful face and tiny hands and feet; Lyndall to whom all about are self-offered devotees, yet who looks away and beyond, seeking one whom she may adore and whom she never meets; Lyndall who will have liberty, and whose passion for it, in an orthodox and conventional world, is her undoing.

These and yet others drift across the scene: the fair-haired Em, the dog-like Gregory, Waldo's "stranger," Doss, the dog with the wrinkled nose. . · There is little plot, little system. The story is as life itself-outside of the story. books-for the most part a shifting of incidents, a drifting by of personalities like a phantom procession in a crystal; here a little and there a little, and the end, after many years, Character,

. . . .

So I muse, with the little blue-bound, gold-lettered volume lying before me, and I think of a photo of the writer, "Ralph Iron"-Olive Schreiner-sent me long ago,-Olive Schreiner as she was in her teens, when this little book, wonderful in its maturity, was written The face, idealistic, dreamy, mobile, yet intrepid and daring, too, comes back to me; and then I turn to the Encyclopaedia of English Literature to learn something of the life which has nurtured this striking personality, now understood a little better.

Olive Schreiner, it is there stated, was born in Basutoland in 1863, the daughter of a missionary in the service of the London Missionary Society. She has written several books, among them "Dreams," a book of spiritual allegories. but it is upon her first effort, this "Story of an African Farm." that the fame rests which has declared her to be "the most original author that South Africa has yet produced." In 1894 she was married to Mr. S. C. Cronwright. and since then has applied herself to political writing rather to dreams and fantasies, in this assisting her husband, who is also a writer on political and economic subjects. Ever a champion of the right of women to be recognized as human personalities rather than as mere sex units, before the Boer war she consolidated her ideas and arguments into a comprehensive book, but before it could be sent away to the printers, it suffered the usual result of war, annihilation. Soldier hands took it from the desk and burned it, with other papers. but "Ralph Iron" was not to be daunted. Painfully she collected her materials again, as well as she could, and the result has been "Woman and Lahor " a volume referred to he time ago in these columns. "The Story of an African Farm," is no book for a child, nor yet for a man or woman of child-development, mentally. To the mature mind, however, it is worth while. There is much in it to which some may take exception; yet others may recognize in it an echo of the problems and struggles, spiritually. that rend every truly inquiring soul. In either case there is much to recommend. After all, as the mind approaches true maturity it recognizes that it is with books as with people: one cannot dislike an admirable work of literature because there may be a few things in it with which one cannot agree any more than one can absolutely condemn a person who chances to have a few faults Were such condemnation fair and just. what book could stand, or what person?

FEBRUARY

[do not lik not understa opinions. S the seed from the earth t them sin; an the plants in pulled up by the angels h ing, and it whole earth. do not kno both. Ther go under the love that be down to th but it lasts than it give that blots with the s with the bit an hour; bu whole life for perhaps the they tried t poets are ri it. It is a color of sin scent of a many kind dowers: even speedwells fan them of lilies that ness out fo dust at nig has the c purity, the mountain li whether th all-friends And these "Of all t only the se sky is no sea is alv thing deep never rests ing, wantin it creeps reached, m a question swer." Nor does us sure as the "answ

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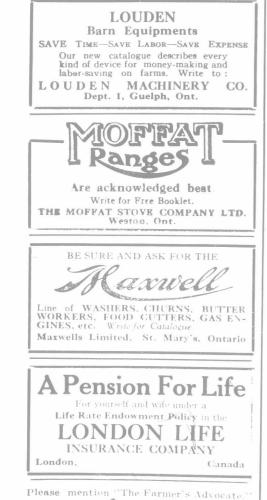
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And now, that you may catch, some what, the drift of the thought in this little volume, may I give you a few quotations ?

These are the words of Lyndall: "The secret of success is concentration; wherever there has been a great life, or a great work, that has gone before.

"There is no use in wailing and repentance here; the next world is the place for that; this life is too short. By our errors we see deeper into life They help us."

"Men and things are plastic; they part to the right and left when one comes among them moving in a straight line to one end.'

"I don't know much about love, and

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I do not like to talk of things I do not understand; but I have heard two opinions. Some say the devil carried the seed from hell, and planted it on the earth to plague men and make them sin; and some say that, when all the plants in the garden of Eden were pulled up by the roots, one bush that the angels had planted was left growing, and it spread its seed over the whole earth, and its name is love. I do not know which is right-perhaps There are different species that go under the same name. There is a love that begins in the head and goes down to the heart, and grows slowly; but it lasts till death, and asks less than it gives. There is another love, that blots out wisdom, that is sweet with the sweetness of life and bitter with the bitterness of death, lasting for an hour; but it is worth , having lived a whole life for that hour. I cannot tell; perhaps the old monks were right when they tried to root love out; perhaps the poets are right when they try to water it. It is a blood-red flower, with the color of sin; but there is always the acent of a god about it. There are as many kinds of love as there are flowers: everlastings that never wither; speedwells that wait for the wind to fan them out of life; blood-red mountain lilies that pour their voluptuous sweetness out for one day, and lie in the dust at night. There is no flower that has the charm of all-the speedwell's purity, the everlasting's strength, the mountain lily's warmth; but who knows whether there is not a love that holds all-friendship, passion, worship ?'' And these are words of Waldo :

"Of all the things I have ever seen, only the sea is like a human being; the sky is not, nor the earth. But the sea is always moving, always something deep in itself is stirring it. It never rests; it is always wanting, wanting, wanting. It hurries on; and then it creeps back slowly, without having reached, moaning. It is always asking a question, and it never gets the answer."

Nor does the teller of the story leave us sure as to whether Waldo has ever got the "answer" to his life of questioning, until he lies there at last, with the little yellow chickens climbing over his black curls. She does not tell us; the instinct of the artist will not permit her to do that,-perhaps she herself does not know,-but in the sunshiny day on the African veldt there is the breath of JUNIA. peace.

("The Story of an African Farm," by 'Ralph Iron,"-Olive Schreiner. Published by Little, Brown & Co., Boston, Mass.)

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Your scales will tell you that rod for rod, style for style, "Ideal" is the heaviest Fence you can buy. That extra weight means extra strength, extra service and durability an l extra value for your money.

"Ideal" has that snappy, springy, hard steel full gauge No. 9 wire that you want in your Fence-that heavy but even coating of galvanizing you insist upon. Every wire and every spacing is as represented in catalogue. "Ideal" is made with even

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Don't experiment, but buy "Ideal." A postal with your name and address will bring you our catalogue No. 4 telling you more about "Ideal" Fence and Steel Fence Posts.

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Where fireplaces have been put in, exterior chimneys reaching from the ground may be very effective ; in other places the chimneys may be grouped, or built of a style and height carefully planned to suit the size of the roof.

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Windows are another detail that must be carefully considered in planning for the appearance, as well as the utility of a house. Nothing, perhaps, can add more, or detract more, from its beauty than their disposition and size.

Generally speaking-and especially for living-rooms, drawing-rooms and diningrooms-they are most effective, both for lighting and for effect, when they are grouped, an arrangement which also permits taking advantage of a fine view when one is afforded. They need not be high-the day of the long, perpendicular slit in the wall is past, forever it is to be hoped-but they should give the effect of generous breadth. Three or four, grouped thus, are, like a fireplace, a great acquisition to any room. They really help to "furnish" it, permitting, as they do, of a very attractive arrangement of curtains.

Small panes, at least for the upper sash, are seen on many of the prettiest houses. They do away with the appearance of mere gashing in the walls, and look somewhat cosier from within, the reason, as you may remember, why William Morris preferred them. The only objection is that they are rather hard to keep clean; dirt will insist on corners odging in the obviate this, however, that has been successfully tried, is to let the windows themselves be of one large pane to each sash, then have a woodwork frame, made as if for small panes of glass, quite separate. This frame swings outward, free from the glass, and may be easily brushed clean with a feather duster. "Pediment" windows, by the way, are almost as obsolete as last year's tight skirts, roof windows taking the form, for the most part, of groups under a single, depending roof, although dormer effects are quite suitable in certain situations. Bay windows, also, have somewhat gone the way of all flesh. Today they are bay windows of old glorified. Usually they swell outward quite along the end of a room, adding to its size and providing a spacious corner for window seats or plants. The effect, within and without, is quite different from that of the old carbuncle excrescence, A last word in regard to windows: Leave stained glass for churches and public buildings where enough money can be spent to secure really artistic productions. If you want fancy window effects anywhere fall back on leaded panes of clear glass in small diamonds or squares. So you will escape any accidents of vulgarity. Casement windows, by the way, are a delight, if constructed well enough to be tight, when desired, in winter. Swinging open as they do, from top to bottom, they admit all the breeze there is without interfering at all with the draperies.

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The New House.

(Continued.)

"It is the 'lines' of a dress that count-not the trimmings," said a woman of good taste the other day, and, most certainly, the same observation holds good in regard to houses, so far as exterior appearance is concerned. Trimmings-useless grilles, borderings, turrets and railings-may be utterly dispensed with, they are only so much wasted money anyway, but the lines of the house must be good if it is to make any artistic appeal at all. Let Grace and Suitability, with Simplicity, be the basework of the plan.

"Lines" of course, depend, in the first place, upon proportion :- The house must not be too narrow for its height; the roof must be neither too narrow, looking like a tin pan on top of a post, nor yet too' broad, giving the whole structure the appearance of a mushroom;-every part must be considered in relation to every other part. As a general rule, for country houses of moderate size, long roof lines and low eaves are the most appropriate.

In the second place "lines" must depend upon the outline as a whole, of the roof in particular, with chimneys, porches, etc., as accessories. Chimneys are often disregarded in planning for a house; any sort of flue that will carry off the smoke safely, is supposed to "do." But this is a great mistake. On the contrary, they can often be depended upon to add just the needed touch of picturesquesness to certain styles of architecture.

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PATRIOTISM and PRODUCTION **Complete Now Your Plans** for the Year's Work

Canada, this year, cannot produce too much staple food. No matter how large her surplus for export, there will still be

need of more food in Europe and Britain. The Canadian Government, therefore, urges all farmers and producers of food to attend the series of Conferences now being held throughout the Dominion under the direction of the Canadian Department of Agri-

262

culture. Let farmers get together at these Conferences and discuss the vital questions of the day. Agricultural Specialists will

Use the Best Seed

This year, for the sake of the Empire, farmers should be exceptionally careful in the selection of seed. Cheap seed is often the dearest. If every Canadian farmer would use only the best varieties, and sow on properly cultivated soil, the grain output of Canadian farms would be doubled. Deal only with reliable seedsmen. Write at once to Canadian Department of Agriculture, Ottawa, and to your Provincial Agricultural Department, for information as to the best varieties of seed to be

also be on hand to give valuable information as to the food products the Empire and her Allies most need, and to offer

suggestions to increase production.

The important thing now is to complete at once your plan for the year's work - for increased production. By planning well in advance, each month's operations can be carried through more

effectively when the time comes. Delays later on, through neglect of this, will mean loss to you and to the Empire.

> and weight, may be so badly damaged by frost that their value for seed is completely destroyed. If you have any doubt as to the quality of your seed a sample may be sent free to the seer laboratory at Ottawa, or Calgary, for test. But in most cases this simple test will prove sufficient:-

Take a saucer and two pieces of blotting paper. Place seed between blotting papers. Keep moist and in a warm place. In a few days, you will be able to see whether the vitality is there. Neglect to test your seed may mean the loss of crop.

more of which may be decided upon. Suffice it to say that the veranda, to be satisfactory, must be broad enough to be sociable. People can't feel at home strung along on a shelf; make the veranda broad enough to furnish it like a room, with tables and easy-chairs, and a hammock or two to boot, and see how naturally the whole family will gravitate to living out of doors in summer. Usually it is most satisfactory at the end of a house, preferably to the east or north, where it will provide a shaded resting place for the afternoons, while interforing very little with the free entrance of the sunlight, Nature's own disinfectant, into the living-rooms. If it be made in the form of a double-decker, the upper portion will be found invaluable for airing bedclothes, brushing clothes, etc.

Among other accessories must be con-

sidered the porch, the veranda, and the sun-room or conservatory, one or

Where a veranda is not practicable the porch, usually intended as a protection to the door and vantage ground for plants, may be extended somewhat, and made to do duty for it. A substantial, three-foot balustrade, preferably of stone, if that will sharmonize with the rest of the house, extending from the steps at either side to enclose the porch, will be found to add to its cosiness.

A sun-room may be dispensed with more easily in the country than in the city, nevertheless it is much prized by those who own it. In many cases the veranda is arranged so that it may be enclosed with glass in winter, and used as a sleeping-room, the glass being arranged slide-wise, and the room heated by a pipe from the furnace. In other cases the sun-room is simply a corner of the house, lavishly supplied with windows, and used for easy-chairs and plants, serving as conservatory and living-room

THE MATERIALS.

Having decided upon the lines, the next question is : Of what material shall the new house be built?

A conceit quite often seen nowadays, is to have the exterior in two materials, stone or brick below, with stucco-often "half-timbered"-above, sometimes cement or cross-boards below, with stained shingles above. While, however, this style is often effective, he who chooses to build his house all of one material, is more sure of not making a mistake. There is a dignity about a house built of one material, which is sometimes lacking in those of a more patchwork order. -All brick, all stone, all stucco, with a roof tinted to a soft moss-green,-can't

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The only the market. delicate seed will sow evenly converted from Dropper. No For sowing Su machine is une Cultivator Atta "EUREKA'

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This is undoubtedly one of the most difficult problems to solve today. There is a



used in your particular locality,

should be thoroughly cleaned

and selected to retain only

the strong kernels. You can reap only what you sow. It

does not pay to sow weeds.

Clean seed means larger crops

and helps to keep the land clean.

When you have your seed grain

ready, put it through the cleaner

Test Your Seed

too. Seed is not always as good as it looks. For example, oats, quite normal in appearance

Test your seed for vitality,

All grain intended for seed

and use no others.

once more.

surplus of labour in the cities and towns and a shortage in the country. Careful handling of the problem is necessary. Under present conditions, in addition to looking to the Governments for help, the necessary work should be largely undertaken locally.

Committees in every Town

The Government suggests the forming of an active committee in every town and city, composed of town and country men and women. This com-mittee would find out the sort of help the farmers of their locality need, and get a list of the unemployed in their town or city, who are suitable for farm labour. With this information, the committee would be in a good position to get the right man for the right place. Councils,both rural and urban,

boards of trade and other

Department of

Ottawa, Canada

Agriculture,

Canadian

organizations could advantageously finance such work. Every unemployed man in the town or city who is placed on the farm becomes immediately a producer, instead of a mere consumer and a civic expense. With Britain and her Allies calling for more food, it will be a national loss, in fact a national crime, to leave in the towns and cities any unemployed men who are capable, as thousands of them are, of being of assistance on the farm.

Have you a house on the farm for a married man? A real home for the farm labourer will solve this problem.

Free Bulletins

The Government urges farmers and other producers to make a wider use of the large number of Free Bulletins issued by the Canadian Department of Agri-culture, Ottawa, or your Pro-vincial Departments. There are special Bulletins on selection of seed, testing, early planting, that you should have. Clip out, fill in and mail the coupon below and get these Bulletins.

Send your coupon by first mail. Do not put a stamp on the envelope. Your coupon will be "On His Majesty's Service," and will travel free.

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When Writing Advertisers Will You Kindly Mention The Farmer's Advocate

imagine how pleasing it

Shingles, by the way, whether for walls or roof, should be dipped in some protective stain or wash,-creosote stain for instance-before being nailed in place. They both last longer and look better. For roofs, tile and slate are, of course, more permanent, but cost more.

Brick is, perhaps, the favorite building material in Canada, but it is to be remembered that there is brick-and brick. You can choose an ugly, gairish red if you like, but you can also choose pretty, soft shades, in red or buff. Paving brick is usually rather quiet in coloring, and being hard and close in texture, is quite to be recommended for outside facing. . Also the color of the mortar counts. No longer is one tied down to the old dead white variety; grayish mortars, and even black, or reddish to match the brick, are now quite common. When cement or concrete is used, it may be tinted to a warm, stone color. The most successful cement houses are built, not of concrete blocks, but of reinforced concrete.

In any of these houses, outside chimneys and the veranda or porch balustrades, may be of field - stones well set. With a drapery of vines, the effect, especially in a rugged country, is excellent. "Frame" houses, which must be painted, present one outstanding problem, the color. White, cream, gray, soft green and brown, . and very dull, quiet red, are the safest colors, with windowcasings, veranda, etc., in very quiet con-trasts indeed. For these, there is a shade of soft, olive-green, that is usually reliable.—the same as the roof tones. "Paris," or bright green of any kind. should be given a long leave of absence, as should also any pricking out of high

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The Latest Improved Specialities FOR FARMERS and GARDENERS

These tools are Labor and Money savers and should be on every farm and garden. Our method of making these specialties assures adaptability, strength and service at the minimum price for the best goods of their kind on the market.



The only rear-wheel driven Seed Drill on the market. The Eureka will handle the most delicate seed without bruising or breaking and will sow evenly to the last seed. Can be instantly converted from a regular seed sower into a Hill-Dropper. No waste of seed when turning rows. For sowing Sugar Beets and all garden seeds this machine is unequalled. Sold with or without the Cultivator Attachments.

"EUREKA" WAGON BOX AND RACK Without wings and ladders it is an excellent wagon box. With them it is a perfect Hay, Stock, Wood, Corn or Fruit Rack. Can be instantly adjusted to any position without wrench, hook or rope

"EUREKA" SANITARY CHURN

The only Sanitary Churn made. Barrel of finest stoneware. Aluminum top, with glass peep-hole. Very easy to operate. Three sizes—8, 10 and 12 Gallons. and 12 Gallons.

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The Combination includes Anvil with vice, Pipe Vice, Drill Attachment, Saw Clamps and Hardie. An excellent article for repairing tools and machinery. Weighs 60 lbs.

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Our latest catalogue describes our entire line-It shows our Cultivators. Seeders and Tools a⁸ they are and gives a full description of their con-struction in detail. Write for free copy.

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Make Stock Fit and Fat

Furnish your animals with needed and valu-able feed elements lacking in ordinary diet by giving them Caldwell's Molasses Meal—the unequalled upbuilder of cattle, horses sheep and hors. and hogs. **CALDWELL'S Molasses Meal**

(84% Pure Cane Molasses and 16% Edible Moss)

makes every-day feed more palatable and more beneficial, and reduces feed bills. By its use you get better results and save money too. Its benefit to stock will quickly show.



THE FARMER'S ADVOCATE.

lights with red. If one does not care for green, there are soft wood-browns to fall back upon, while dull - red or buff houses may even look well with "trim' of ivory-white. (To be continued.)

A LETTER OF THANKS.

Dear Junia and All Kind Readers,-It is February 1st, and here I come through all the storm. How it does blow, to be sure, and so cold; makes one thankful for a home out of the storm. Blessings sent from day to day make life a pleasant way. I did not feel as if I could write, but shall do my best, as my heart is warmed by the kindness of many old and new friends who so kindly remembered me at the Christmas season. Words fail me to express gratitude for it all. And Junia, the dear she was to forward me those letters; so kind of her to offer to do so. As I cannot write to each one, I shall do so here, then all can have a share. Those kind words written have helped me so. They made silent teardrops fall. How little you writers knew the good your writing was going to do the Lass; but, dears, some of you only sent your pen name. - I am sorry, as I could not write you even were I to wish to do so, and Junia tels me she cannot find them. I like to know the full names. Far and near, people read "The Farmer's Advocate." I hope the one from Montreal will write, giving me full name. Thank you for those kind words. Also wish to say I appreciate remembrance from the reader in Australia so much. I would have been pleased to send gifts to many, but really could not do so, but shall try and write to the Nook still. Glad to know my letters are wanted and help others. Sometimes I had decided not to write again, had nothing new to write, but have taken fresh courage, and do what I can. I hope one and all of you had a pleasant Yuletide, and may you have many of them. "The Farmer's Advocate" is such a help, and Hope's writings, too. This has been a busy winter for those who could help in making for the soldiers and for the needy, and there are many such now. I feel such a longing to do much to

help others on the way by working and going about doing good. Sometimes it is not easy to bide still at home. What a blessing prayer is in such times. Tell Jesus all, and know it surely is best or He would not have it so. I often think our lives are planned for us, if only we can follow where Jesus leads, and He will give us strength if we look to Him. Sometimes in my vision His dear face 1 see, and Heaven seems nearer and dearer to me. Pain and loneliness are as nothing when we think of the home over , and just to rest sweet is the promise, sweet rest in Heaven. Well, this letter is long, but I feel Jesus so precious I could write on and on as well as talk of Jesus had I any to talk to, for my heart is filled with joy in His love. Now, as I have an idea I shall send it. Several have asked me what to clean aluminum ware with. My experience is to use bathbrick, very fine, on damp cloth. On spoons, if let dry with brick on, and polish with dry brick, will make them like new. If stew kettle gets dark, I have seen apple peelings boiled in it and that takes all stains out, leaving kettle bright. Try it and see for yourself. Now, I must really close again, thank ing dear Junia and each one for ki-dnesshown me. Hoping this year will be a blessed year to all. Your grateful shut-in friend. LANKSHIRE LASS. Wellington Co., Ont.

Sydney Basic Slag

Ontario Farmers are being exhorted on all hands to increase production. The most certain way in which this can be achieved is by using Commercial Fertilizers and we ask you to buy Sydney Basic Slag because it is the best value obtainable. You needn't take our word on these matters. Here is the proof.

The Canadian Department of Agriculture says: Germany in the last ten years has doubled the average yield of her field crops largely through better seed, thorough cultivation and use of Fertilizer. (See Toronto Globe, 13th February).

B. Leslie Emslie, the well-known agricultural expert says: Sydney Basic Slag is one of the cheapest and best Fertilizers known. (See Farmer's Advocate, 4th February, page 158).

Professor Cummings (himself an Ontario man), Agricultural College, Truro, N.S., says: On the College Farm splendid results have been obtained from the use of Basic Slag especially in the growth of Clover. (See Farmer's Advocate, 4th February, page 158.)

Now Ontario Farmers, The Mother Country is involved in a life and death struggle to preserve the liberties which are our heritage from the men who have gone before. It is up to you to do something. You are not asked to risk your life on the field of battle but you can render assistance as essential and as vital to our ultimate success as the man who goes to the front. It is your part to feed The Mother Country and her allies and everything you can produce will be needed. The boys in the trenches can be depended on to do their bit even to yielding their lives for us but we in Canada must see that neither they nor the toiling thousands who labor to provide the munitions of war shall suffer for lack of food. The aim of every Ontario Farmer therefore, should be to increase his production of Food Stuffs by at least 50% and the use of Commercial Fertilizers will materially assist to this end. If we have no agent in your district we will send you a ton of Basic Slag for Twenty Dollars delivered free at any station in Ontario, cash with order-or better still, if you think you could distribute a carload of twenty tons among your neighbors, write or telegraph us and we will instruct our General Sales Agent to give you a call at once.

Descriptive literature on application to





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SEED OATS O.A.C. No. 72. Guaranteed pure and clean. \$1.25 per bushel, bags free. Duncan McTavish, Chesley, Ontario

YOU CAN BE A NURSE We positively guarantee to train you in your own home, furnish uniform, and assist you to positions with \$12 to \$25 a week. Send for free catalog and illustrated book of "National Nurses."

BOOK LIST.

Dear Friend,-For such I think of you after reading so many of your chatty talks in the Ingle Nook. You do such a variety of subjects that we are inclined to think of you as something of a walking Encyclopædia, if you will par-don the expression. Trusting in that belief, I come, asking for a recommendation of a book.

I am one of the Literary Committee of our Epworth League, and for our on France, Belgium, or Germany, prefer-ably the latter. If possible, we should 500 Good Grade Ewes Any number to suit purchaser. In the natural resources and commer-R. Reid & Co. Maple Cliff Farm, Ottawa 94 Dovercourt Road :: Toronto Ontario-10 Onter Family. 94 Dovercourt Road :: Toronto Ontario-

THE FARMER'S ADVOCATE. Perth Co., Ont. THE LISTER SILO prices : ---THE BEST **One Quality Only** OBLIQUE-BUILT WINDOW GALVANIZED IRON-OR HATCH THROWS VENTILATOR LIGHT DOWN INTO SILO, FITS CLOSELY AND OFFERS NO WIND RESISTENCE SELF-SUPPORTING SECTION-BUILT ROOF, PATENT ROOFING ter, Eng.

HOOPS 5/8 IN. **IRON RÚN THROUGH** SPECIAL BEND-**ING MACHINE**

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8-IN. THREAD **HEXAGON NUTS**

DOOR FRAME BEVELLED AND **RABBETED TO FIT DOORS**

ONE-PIECE DOOR, ENDS **RESTING ON** HEAVY DRESSED **CROSS BEAM** WHICH INTER-LOCKS INTO SIDE OF DOOR MALLEABLE IRON TIGHTENERS **UNBREAKABLE**

HEAVY 3x6 DRESSED CROSS BEAM, **GIVING MOST** DURABLE AND AIR-TIGHT DOOR

ADJUSTABLE DOOR CLAMP FOUNDED 1866

FEBRUARY

Not an "Encyclopædia," dear friend,just a fairly good "hunter," as everyone in editorial work must be.

Here is a list of books that may be suggestive. Write to the publishers for

"Belgium," by Geo. W. T. Omond Pub. by A. C. Black, Soho Square, London, W., Eng.

"Germany and the German Emperor," by G. H. Perris. McClelland, Goodchild & Stewart Pub. Co., Ltd., Toronto,

"The French in Town and Country," by Hannah Lynch. Pub. by George Newnes, Ltd., London, Eng.

"Monarchical Socialism in Germany," by Elmer Roberts. Chas. Scribner's Sons, New York,

"Germany of To-day," by Chas. 'Tower Pub. by Williams & Norgate, London, Eng., or Wm. Briggs Co., Toronto,

"Germany in the Nineteenth Century." Pub. by The University Press, Manches

"Industrial Germany," by W. H. Dawson, Collins Press, London, Eng. "Austria, Her People, and Their Home-

lands," by Baker. John Lane Pub. Co., New York. "The German Enigma," by Georges

Bourdon. Introduction by Chas. Sarolea, the celebrated Belgian professor and author, who is coming to Canada in the near future. Publ by J. M. Dent & Sons, Ltd., London, Eng.

CELERY SALAD-MEAT PIE.

Dear Junia,-May I come to you for a little help ? We have taken "The Farmer's Advocate'' for some time, and think it a valuable paper. Will someone please tell me how to make celery salad, and a good crust for a meat pie? Thank ing you in advance. MRS. W. C. Ontario Co., Ont.

Celery Salad .- Mix together equal quantities of chopped celery and apples. Add some chopped nutmeats and mix with salad dressing. Serve on lettuce leaves or celery tips.

Crust for Meat Pie .- Sift 2 cups flour with $\frac{1}{2}$ teaspoon baking powder and a pinch of salt. Rub in with the fingertips 2 or 3 dessertspoons of butter or dripping, then, with a knife mix to a stiff paste with a little sweet milk or water. Roll out at once (never knead pastry) and put on pie; brush over with sweet milk and bake (in a quick oven at first). Three ounces of suet, finely chopped, may be used instead of the butter or dripping.

REMOVING STAIN.

Dear Ingle Nook Friends,-For you are all friends to me, although you do not



know me. I have found out so many helpful things it has made me greedy for more. I have had tea spilt on an embroidered cotton voile. Can anyone help me about it ? I have poured lots of boiling water through it. Then I read to soak it in milk, but that only made it worse. I have not used any soap on it. It is fine to have the Ingle Nook to come to in trouble, and I do not even have to write to find things out very often. I wish I had some knowledge to give in return, but am only a little country lass. Hoping that someone will help me, and that you may all have a happy and useful year, I am your friend ENQUIRER. Perth Co., Ont. "Scientific American" gives the following methods for removing tea stains: (1) From white cotton and linen goods -Water, followed by sodium hypochlorite (2) From colored cotton and linen.-Aqueous soap solution and ammonia (3) From white silk and woollen goods.-

Water, followed by potassium permanganate, then to remove the brown mark, sulphurous acid solution. (4) Colored silk and woollen goods .-- Water, followed by hydrogen peroxide, if the color is fast to this; if not, use methylated spirits and soap. In every case rinse very thoroughly.

INK STAINS.

N. N., Wentworth Co., wishes to know how to remove ink stains from a lace sleevelet. Oxalic acid solution, followed by rinsing with clear water, and finally with ammonia water to prevent rotting, will take out ink stains from white goods. A simpler remedy is buttermilt. I took out stains from a pongee sleeve by simply soaking it in buttermilk for

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THE FARMER'S ADVOCATE

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TheUnukeal"New dea" BearsOur Trade Mark and Guarantee

"NEW IDEA" is the name of our famous gearless spreader in the regular standard type. "NISCO" is the name for the low down machine. Any machine masquerading under a similar name is a

Be sure to get the real "NEW IDEA" or "NISCO", the spreaders rank imitation. with more strong features than can be mentioned here. Either one of these machines is GUARANTEED for a year against breakage from any cause. Insist on getting the machine with the AXLE FEED, and INSIST

on getting it with the STEEL DISTRIBUTOR that is non-breakable and will spread 7 feet wide. These are the only two machines that spread evenly beyond the wagon tracks. They COVER 7 feet with one spread, saving time and wear on the machine. Think of this when

The special features on both of these machines are fully covered by Patents and the names are you're buying a spreader. protected by Registered Trade-Marks. Insist on these two machines and take no other, for any other make using a similar name is an imitation, and is not the real thing, as the new improvements, the AXLE FEED and the STEEL DISTRIBUTOR of special design have just been brought out by US and will be covered by Patents so they cannot be touched by competitors.

Easy Easy to Empty dea Load

Low down easy loading light draft spreaders that are prime favorites with every farmer who has ever used them.

The NISCO stands only 41 inches high to top of sides, yet has 19 inches clearance under conveyor. The double pulverizing cylinders enable you to load 12 inches above top of sides, insuring a full capacity spreader.

The NEW IDEA is as low as a machine that tracks can be built, only 42 in. high at the rear wheels. This has always been the favorite machine in the Dairy Sections and in hilly countries, and we are pushing it stronger than ever. The latest improvement on this machine is the STEEL SILL with the bearings bolted to it, removing strain from the sides. Of course the NEW IDEA has the AXLE FEED and STEEL DISTRIBUTOR, the same as the

Wide wheels on both machines, of a very heavy type, insure sufficient traction power. The perfect pulverizing mechanism insures light draft and prevents choking. They are built very substantially and only the BEST material and labor is used. The strong braces used on the sides and the top brace over the cylinders prevent cramping of the bearings. Self Aligning bearings of an improved type are used. SIMPLICITY and DURABILITY have always been our watch-

word. Two levers and a little foot latch operate the machine, and it's so simple that any boy can handle it. One lever throws the machine in and out of gear, and the other lever gives six changes of feed and the foot latch can be used if wanted for stopping the feed entirely if you get to a place where you don't want to spread, or when turning.

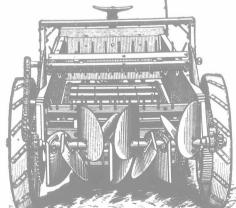
Special Feed Mechanism and Steel Distributor Found Only on the "NEW IDEA" and "NISCO"

AXLE FEED-Here's a big feature. The rear axle turns with the wheels when going forward, and stands still when backing. One end has the large sprocket wheel fastened to it for driving the cylinders, and the other end has a set of cams securely keyed to it for operating the feed. It's very steady, and has a wider range of adjustment than is possible any other way. Besides, it is

noiseless, doing away with the clicking of ratchets which is so annoying to many teams. STEEL DISTRIBUTOR-This is our latest improvement, and the result of ten years experimenting and testing out. It is increasing our safes rapidly and is sweeping the business like a whirlwind. Whenever a farmer sees this distributor at work he becomes

an enthusiast over it. It spreads 7 feet wide, and so even that a field covered with manure by it looks as though it had been sowed on. This wide spread saves you half a mile of travel per acre. Think of the time saved, the ease on your horses and the wear on

There are scores of other BIG Features on both machines. It is recognized as the BEST. the machine saved.



Big Money-Making Proposition for Live Agents

A profit maker for every agent who is successful in getting lined up now. We want 1,000 more live agents in Canada this year and want to increase our sales to 10,000 machines for the year, as every agent can easily sell 10 machines. We help to sell the goods as our live advertising campaign will bring thousands of inquiries. We have opened a big plant for Canadian trade and carry a big stock for prompt shipments. We emptoy a large number of travelers to help our Agents sell spreaders, and our terms are very liberal.

We want one good hustling Agent in every vicinity, a man who has the respect of his community and who is not afraid to talk a good article and handle an honest proposition in an honest way.

Act now before someone else gets ahead of you. If you are a farmer and don't sell any machinery yourself, fill out the coupon in the right-hand corner and give us the name of the Agent from whom you buy most of your machinery. We will see to it that you are supplied.

NEW IDEA SPREADER CO., Spreader Specialists, 354 MAIN ST., GUELPH, ONT.

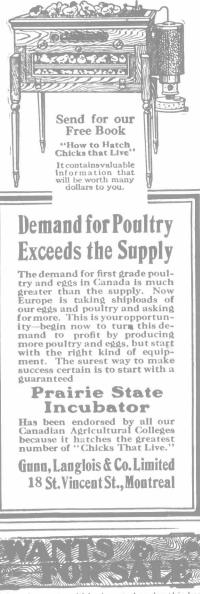
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NEW IDEA SPREADER CO., 354 Main St., Guelph, Ont.

Please send literature descriptive of the New Idea and Nisco spreaders. I am interested in your agency proposition

Name Address

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Advertisements will be inserted under this head

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

GROW WHEAT—the opportunity is on. For Sale—160 acres in Saskatchewan, 3 miles from main line C.P.R. west of Swift Current 40 acres summer-fallow, shack and stable, well Fo settled country, \$16.00 per acre. Apply to E. G Lucas, Dundalk, Ont.

SITUATION wanted by married man as manager or farm hand, accustomed to all kinds of farm work. Address T. H. Cochrane, R.R. 3, Clifford TWO HUNDRED acre, dairy farm for sale in Western Ontario; one hundred miles from Foronto; choice land and buildings, milking mach-ine: everything up-to-date for dairy purposes; possession this spring. Address: Farmer's Ad-vocate. Box M. London, Ont.

YOUNG man seeks situation on farm, willing worker. Apply to A. Lang, Nestleton Sta. Ontario

THE FARMER'S ADVOCATE.

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SALT WORK,

M. B., wishes directions for making "salt work." I have no method on hand except for salt beads, but perhaps some reader can answer.

FANCY CAKES.

"Vanity," Lambton Co., Ont., would be pleased if "White Rose" will send the recipes for "ribbon cake" and "dominoes cake," which she mentioned. "Vanity" very kindly contributes one for "watermelon cake," which is as follows:

White Part .- One cup pulverized sugar, 1 cup butter, 1 cup sweet milk, 11 cups flour, whites of 2 eggs, 1 teaspoon baking powder.

Red Part .- One-half cup red sugar, 1 cup butter, 1 cup sweet milk, 1 cup flour, 1 teaspoon baking powder, 1 lb. raisins. Put red part in center of pan and white part on the outside.

MENDING BAGS.

Mrs. H. A., Simcoe Co., Ont., very kindly sends the following method for mending bags satisfactorily : "Make a paste of flour and water, and get a piece of old bag or other strong cloth large enough to extend over the tear nicely. Apply paste and lay patch on, inside of bag, and iron until dry. It will hold for a long time if properly done."

Reading in the Farm Home.

By T. A. Tefft.

A common testimony of housekeepers is that they have little or no time to read; that the demands of the home are so great that even if they get a little time they are too tired to read or study. Reading has been pursued in a perfunctory way, perhaps, and has ceased to be a recreation, or the habit has become lost in too close attention to the practical, and the delight which was once obtained from books has been lost. Perhaps, in the effort to provide the home with the comforts of life, books have become a luxury not now to be indulged in; or the volumes composing the library are only those once enjoyed and outside of present tastes and demands; they may even be those which the urgency of the subscription agent has compelled one to buy, and which may be locked up behind glass doors in an oaken case, books which may not feed the literary sense in

three days, then rinsing thor- understand all of Marmion, but he Not a trace of the ink was catches the fire and spirit of the poem and enjoys it, even as he will not when, as an older person, he reads from the standpoint of a critic. It is surprising how much children will absorb from books of a really mature nature which are read to them. Children enjoy that which is strong. An education is desired for the children, but too often the parents feel compelled to lay aside books in the crowded days and nights of striving for their children's welfare. There is danger here of pushing the boys and the girls to the front, while the parents go into the background and get "behind the times." It is exceedingly wholesome for the boys and girls to feel that their parents are still in advance of them; they not only enjoy intellectual comradeship, but they are benefited by looking to the parents for literary and intellectual leadership. There is a larger amount of sympathy between the mother and daughter who wash dishes and read "The Lady of the Lake" together, than between the mother who washes the dishes and the daughter who reads "The Lady of the Lake." The boys will enjoy "Snow Bound" more if the father and son have shoveled the snow together.

Men and women are most interested in human nature, its fortunes, its misfortunes, and its possibilities; hence the enormous sale of fiction. There is a large amount of fiction bought and read, however, which, while it may not be pernicious, fails to inspire with a nobler ambition; it does not strengthen the mind; it does not add culture. It excites, it entertains, it wears very smooth the avenues of the brain through which it travels, but it leaves no thought-pegs upon which to hang ideas. A nove which has led a person to think, which creates an appetite for the best literature, and which incites to higher and nobler living, is well worth while. Regret is often expressed that the book of the day, referring particularly to the novel, does not oftener come into the farm home. Perhaps, however, there are compensations for this deprivation. Dickens, Scott and Thackeray, have not wholly given place to the modern novel. The mind needs very careful management. It rebels against overcrowding. as the body against overeating. We sometimes do not read because we do not feel equal to the task before us; energy has been spent in other directions. Still there are books that are a recreation, and also well worth reading. Because we can not, on some occasions read a learned book, difficult to understand, we need not refuse at such a time to read a good book of fiction, a bit of biography, or a poem. There are sugFOUNDED 1866



olumns. No advertisements inserted for less than

BIG husky White Wyan lotte conkerels from heavy laying strain at \$2.50 each while they st Order to day. W. B. Powell, Galt, Ont,

BARRED Rocks, great laying strain prizewin ners, cockerels \$1.50 to \$2, pullets \$1.2 e atral Ontario Poultry Yards, Colborne, Ont.

FOR SALE—White Leghorn hens and pullets. Houdans, Bluck Minorcas, Barred Rocks, cockettels and pullets. Sunnyside Poultry Yards, Highg ite, Ont.

FOR SALE—Single-comb Black and White Leg horn cockerels at \$2 each. J. C. Collard outhend, Ont.

COR SALE—M.numoth Bronze Turkey Tome bred from Bell's prize bird "Sensation"; apply ohn Black, Glanworth, R. R. No. 2.

FOR SALE—Five select cockerels, Rose Comb Rhode Island Red. Spl-ndid litter pedigreed scotch Collie puppies. B. Armstrong, Codrington:

MAMMOTH Bronze Tarke s - Frizewinning birds, Angus Beattie, Wilton Grove, Ont. R. R. No. 1.

R. R. No. I. MAMMOTH Bronze Turkeys Winning more first prizes than all other exhibitors at Lon d n. Hamilton and Guelph Shows. W. H. Beattie. Witten Grove, Ont. MAMOTH Bronze Turkeys. Finc heavy birds bred from prize stock. R. G. Rose, Glap worth. Ont.

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DAKENHAM'S Silver Campineswo at anada's largest shows. Eggs at reasonable prices. Write for circular. W. E. Pakenham, Norwood.

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\$7,500.00 50-acre fruit farm. 1 mile east of Beamsville, on Stone Road. 10 acres of fruit. Good house, barn, and chicken houses. Property carrying \$3,500 mortgage. Enquire: E. C. Morris. Ridgeville, Ont.

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Wednesday, March 3rd, 1915 40 Registered and High-grade Holsteins Having sold my firm. Using elements and will sell my entite heid without reserve. Send for Catalours

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Two Young Shorthorn Bulls for sale, twelve and thirt en monther both to us and first class animals, and breeding unexcelled. Also a few young fem des. One mile east of town station

the least.

There may be children growing up in the home demanding all the housewife's attention, but that is the very time when her literary sense needs the most food in order that she may be an example and stimulus to her family. It is a happy boy whose mother will read Arabian Nights with him, even if his jacket is mended at a later hour.

There are books upon the shelves which we often resolve to read, but we wait for an opportunity when we may be able to read an hour or two at a time. Thus they remain, perhaps for years, and are always a pleasure or a task ahead of us, rather than one accomplished or one being enjoyed. The best way to overcome this is to select a book, read a chapter or a few pages the shelf feeling that it has become a part of our own life and experience, and that we are the richer for its acquaint-

home may acquire the habit of reading. Children base walked back and forth looking at the titles of books which for an older person to interest them in a subject, and perhaps to read aloud until sufficient desire was gained so that

It is a mistake to "read down" to ask whether all parts of a book are chanical, and is delightful occupation. HUGH THOMSON, Box 556, St. Mary's, Ont. | within his comprehension. He may not

of the working the newspapers, the short magazine article, and such scrappy reading, often indulged in, are the sole mental occupation of the reader.

A good light, properly shaded, an easy chair, books and magazines convenient to pick up, a room comfortable to sit in. all contribute to one's enjoyment. Everything possible should be provided to increase a literary atmosphere in the home. It is a sad picture to see members of the family growing old without the desire to read. With the advance of years and lessening of activity, a person may find great comfort in books, while one with folded hands, disinterested in waiting, unemployed in body and mind.

Memorize good selections. Our fatners than their children have. In earlier days there was less reading matter More time was spect on standard works and the attention was not dissipated by much scattered reading. Poetry was read and committed to memory. Time was given to allow a thought to enter the mind and become absorbed before the reader rushed to the next subject. The babit of memorizing may be easy or very laborious to acquire. Read the selection or a paragraph two or three times to get the mental pictures, close the book and recall them in their order. Never mind the particular wording. If they cannot be recalled easily, take a parauntil the entire picture is before you. Then see how easily the words come in their order. This method is not me-chanical, and is delightful occupation. The cultivation of the memory for they would wish for more and make an graph or verse at a time. Re-read it Then see how easily the words come in the child. It is a mistake always to their order. This method is not me-



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literature is aided by the recalling of events and of objects seen at a glance, and all this helps one to be accurate in his observations and in his routine of details. One great cause of inefficiency in practical life is a lack of power to remember. A boy who forgets to bring in the wood or to put up "the bars," the girl who forgets to salt the potatoes or to sew a button on her father's coat, needs to train the memory.

· By practice along right lines, power may be gained for nuch enjoyment. A walk to the pasture, or the day's churning will be much more pleasant if one can live over the scenes which he saw in last night's reading (leasant thoughts are good companious

Efficiency in the statge the institute. the lyceum, and the literary club, is gained by the increase of power to stand before the company and sireak. True, one may be overcome by fright, but let him go right on, take uve fall breaths. say he does not cars what anybody thinks as long as he does his best, get thinks as long as in something, and he has contributed to the success of the meeting, gained power for hunself, and reconst sound preater effort next time. To such efficiency there stifut reading is

a great asset. The life of hurry and rush precludes sufficient meditation and reflection. Books are not thoroughly digested. It is not the number of books one has skimmed that cultivates the mind. Reading books or articles which do not require thought lessens one's power. Language and thought are so closely related that we cannot express ourselves well unless we have thought as we have read. A good habit is to write out, now and then, what one has read, repeating in his own words, if need be, the thought of the author. (Improve upon it, if pos-sible; make it clear, sumple, forceful. Too many words hade the thought.

It is desirable to have, in addition to general reading, special reading to fit general reading, special reading to he one for the work of the farm and the farm home. Daily papers, magazines, and books, find their way to the rural dweller very expeditionsly since the advent of the rural free delivery, and farmers and their families who can make ise of such opportunities have no excuse for not being well informed and intelligent.

Our Serial Story. PETER. A Nevel of Which He is Not the Hero

THE FARMER'S ADVOCATE.

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By F. HOUSINSON SMITH Charles S advact's Seps 劇 Chapter XXXII.

Copyloghted by

The Board of Churce Trustees u.et, as customary, on Monday oight, but there was no business transacted except the passing of a resultion expressing its deep regret over the one of them distinguished fellow ow snar, whose genius has added so nother the beautifying of our village, and allose uprightness of character will always he." etc., etc.

Neither Jack for McGowan, nor any one representing their interests, was present. A hurried chance over Garry's check and bank-bouls showed that the money to pay Metocaan's vouchers-the exact kum-had here drawn from the fund and deposition to trarry's personal credit in his own bank in New York. There was therefore made in this way no proof that the since had been diverted into illegit: ie snantels.

McGowan was in d that same Monday afternoon, Jack conging the papers to the contractor's of a where they were signed in the preserve of Murphy and his

was closed, each and every conand hoirs rejoiced

"Mr. Mino: car at his stepfather's hap'l' also is one of the He was in want to ha A construction So when Went over Mac wanted + ad to fork out.

THE FARMER'S ADVOC.ATE.

and he did, like a good one. I seen the check, I tell ye. Oh! they're all in Mr. Breen's kin to them New together. York folks, and so is Mr. Minott. He's her father I hear. I think Mac shot off his mouth too quick, and 1 told him so, but he was so het up he couldn't keep still. Why, them fellers has got more money than they can throw away. Mac sees his mistake now. Heard him tell Mr. Breen that Mr. Minott was the whitest man he ever knowed; and you bet yer life he's right."

Nor was Murphy's eulogium the only one heard in the village. Within a week after the funeral a committee was appointed to gather funds for the placing of a stained-glass window in the new church in memory of the young architect who had designed and erected it; with the result that Holker Morris headed the subscription list, an example which was followed by many of the townspeople, including McGowan and Murphy and several others of their class, as well as various members of the Village Council, together with many of Garry's friends in New York, all of which was duly set forth in the country and New York papers; a fact which so impressed the head of the great banking firm of Arthur Breen & Co. that he immediately sent his personal check for a considerable amount, desiring, as he stated at a club dinner that same night, to pay some slight tribute to that brilliant young fellow, Minott, who, you know, married Mrs. Breen's daughter-a lovely girl, brought up in my own house. who has now come home again to live with us.

Peter listened attentively while Jack imparted these details, a peculiar smile playing about the corners of his eyes and mouth, his only comment at the strangeness of such posthumos honors to such a man, but he became positively hilarious when Jack reached that part in the narrative in which the head of the house of Breen figured as chief contributor.

"And you mean to tell me, Jack," he roared, "that Breen has pushed his self into poor Minott's stained-glass window, with the saints and the gold crowns, and-oh, Jack, you can't be serious!" "That's what the Rector tells me,

"But, Jack-forgive me, my boy, but I have never in all my life heard anything so delicious. Don't you think if Holker spoke to the artist that Mr. Iscariot, or perhaps the estimable Mr. Ananias, or Mr. Pecksniff, or Uriah Heep might also be tucked away in the background ?" And with this the old fellow, in spite of his sympathy for Jack and the solemnity of the occasion, threw back his head and laughed so long and so heartily that Mrs. McCuff cuse to enter the room to find out what t was all about. With the subletting of Garry's house and the shipping of his furniture-that which was not sold-to her stepfather's house, Jack's efforts on behalf of his dead friend and his family came to a close. Ruth helped Corinne pack her personal belongings, and Jack found a tenant who moved in the following week. Willing hands are oftenest called upon, and so it happened that the two lovers bore all the brunt of the do-Their own packing had long since been completed; not a difficult matter in a furnished house; easy always to Ruth and her father, whose nomadic life was marked by constant changes. Indeed, the various boxes, cases, crates, and barrels containing much of the linen, china, and glass, to say nothing of the portieres, rugs and small tables, and the whole of Ruth's bedroom, furniture, had and sent on its way to Morfordsburg. there to await the arrival of the joyous etent hands would bring order out of heir sink nails and soft palras, so wonberfully gracefil over teaport or fan. gown, all frills and ruffles and lace, was a sight to charm the eye of any man, but Ruth in calico and white apron, her beautiful hair tiled on top of her still more beautiful head; her skirts pinned up, and her dear little feet pattering

FOUNDED 1866 about, was a sight not only for men but for gods as well. Jack loved her

in this costume, and so would you had

you known her. I myself, old and

wrinkled as I am, have never forgotten

how I rapped at the wrong door one

morning - the kitchen door-and found

her in that same costume, with her

arms bare to the elbows and covered

with flour, where she had been making a

"sally lunn" for daddy. Nor can 1

forget her ringing laugh as she saw the

look of astonishment on my face, or my

delight when she ordered me inside and

made me open the oven door so that

she could slide in the finished product

The packing up of their own household

impedimenta complete, there came a few

days of leisurg-the first breathing spell

that either MacFarlane or Jack, or

Ruth, too, for that matter, had had for

weeks. MacFarlane, in view of the com-

ing winter-a long and arduous one,

took advantage of the interim and went

south, to his club, for a few days'

shooting-a rare luxury for him of late

years. Jack made up his mind to de-

vote every one of his spare hours to

getting better acquainted with Ruth, and

that young woman, not wishing to be

considered either neglectful or selfish, de-

termined to sacrifice every hour of the

day and as much of the night as was

proper and possible to getting better ac-

quainted with Jack; and the two had a

Jack, too, had another feeling about

it all. It seemed to him that he had

a debt of gratitude-the rasping word

had long since lost its edge-to dis-

charge; and that he owed her every

leisure hour he could steal from his

work. He had spent days and nights

in the service of his friends, and had.

besides, laid the burden of their

anxieties upon her. He would pay her

in return twice as many days of glad-

ness to make up for the pain she had so

cheerfully borne. What could he do to

thank her ?- how discharge the obliga-

tion ? Every hour he would tell her.

and in different ways-by his tenderness,

by his obedience to her slightest wish,

anticipating her every want-how much

he appreciated her unselfishness, and how

much better, if that were possible, he

loved her for her sacrifice. Nor was

there, when the day came, any limit to

his devotion or to her enjoyment. There

were rides over the hills in the soft

September mornings-Indian summer in

its most dreamy and summery state:

there were theatre parties of two and

no more; when they sat in the third row

in the balcony, where it was cheaper.

and where, too, they wouldn't have to

speak to anybody else. There were teas

in Washington Square, where nobody

royal time in the doing.

without burning her fingers.

Sanitary Stab

FEBRUARY



Sanitary dai city and Gove sisting on the spection have that standard formed with for city consu The milk s

graded and pa The milk whith sanitary stabl cause it is foreign materi ease. It is easy

when equipped and stanchion manure. The to shelter tu Their open co dood every co The open con circulate freel and sunlight it gives then There are

in a barn lik one reason v equipped wit best.

Improvemen stalls lately farmer any r the value of pearance and are galvanizi are charging should write and the com stable. Bea book on ('How to Address, Bea St., Fergus,



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PROFITABLE POULTR RAISING

LET US SHOW YOU THE RIGHT WAY

Would you appreciate the advice and experience of practical poultry men? Men who know what to do and when to do it. Men who can save you years of experimenting and start you into Poultry Rais-ing on a profitable basis?

THIS IS YOUR OPPORTUNITY! Doubtless last winter and spring you said you

ald start raising chickens and meant to do

MADE IN CANADA

Cream Separator is now built with one frame and gearing for all capacities. This frame and gearing is strong and rugged enough to provide a wide margin of safety for the largest capacity. The main gear and intermediates have bearings 21/2 inches long. The gearing would be sufficiently heavy to drive a bowl even 2,000 pounds capacity. Think what a tremendous margin of strength this means in our 350 to 1,000-pound machines.

The bowls of the Standard (any size from 350 to 1,000 pounds) are also sufficiently over capacity to skim 20°_{c} faster than their rating and still do the work as well as other separator bowls.

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of Strength

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In that way you avoid possibili-

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To get a separator of superstrength and over capacity is good business. You know that. But do you know all the other superior features of the Standard cream separator? Write for our latest separator catalogue and get full particulars.

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The 1915 Model

Agencies Almost Everywhere in Canada



but themselves and their hostess were present, as well as other unexpected outings, in which all the rest of the world was forgotten.

The house, too, was all their own Nobody upstairs; mobody downstairs but the servants; even the emptiness of daddy's room, so grewsome in the old days, brought a certain feeling of delight. "Just you and me," as they said a dozen times a day to each other And then the long talks on that blessed old sofa with its cushions-(what a wonderful old sofa it was, and how much it had heard); talks about when she was a girl-as if she had ever passed the age; and when he was a boy; and of what they both thought and did in that blissful state of innocence and inexperience. Talks about the bungalow they would build some day-that bungalow which Garry had toppled over-and how it would be furnished ; and whether they could not persuade the landlord to sell them the dear sofa and move it out there bodily; talks about their life during the coming winter, and whether she should visit Aunt Felicia's-and if 50. whether Jack would come too; and if she didn't, wouldn't it be just as well for Jack to have some place in Morfordsburg where he could find a bed in case he got storm-bound and couldn't get back to the cabin that same night. All kinds and conditions and sorts of talks that only two lovers enjoy, and for which only two lovers can find the

Sometimes he thought he might be too lonely and neglected at the log-cabin. Then she would make believe she was going to ask daddy to let them be married right away, insisting that two



When Writing Please Mention Advocate

D 1866

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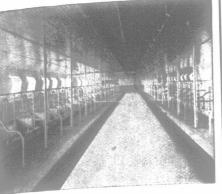
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FEBRUARY 18, 1915

Sanitary Steel Stalls Keep **Stables Cleaner**



Sanitary dairy harns are a necessity City and Government authorities are insisting on that. Rigid systems of inspection have been established to insure that standards of cleanliness are conformed with in the production of milk for city consumption.

The milk shipped to many cities is graded and paid for according to grade. The milk which is produced in a bright, sanitary stable, brings the best price because it is cleaner. It contains less foreign material, and fewer germs of disease.

It is easy to keep the stable clean when equipped with sanitary steel stalls and stanchions, for these do not soak up manure. There are no cracks in them to shelter tuberculosis germs or vermin. Their open construction lets the sunlight dood every corner. Sunlight kills germs. The open construction allows the air to circulate freely. Abundance of fresh air and sunlight is better for the cows, for it gives them greater vitality.

There are no odors to taint the milk in a barn like that shown above. That's one reason why milk produced in barns equipped with steel stalls always keeps best

Improvements have been made on steel stalls lately which do not cost the farmer any more, and they add much to the value of the equipment in both appearance and permanence. Beatty Bros. are galvanizing the BT Steel Stalls, and are charging no more for them. Farmers should write for a price on the stalls and the complete cost of remodelling the stable. Beatty Bros. will send 64-page book on Galvanized Stalls, and book "How to Build a Dairy Barn," free. Address, Beatty Bross, Limited, 168 Hill St., Fergus, Ont.

Prove it Yourself

Without Cost

THE FARMER'S ADVOCATE.

rooms were enough for them, and that she herself would do the washing and ironing and the cooking, and which Jack would laugh over the joy of it all, conjuring up in his mind the pattern of apron she would wear and how pretty her bare arms would be bending over the tub, knowing all the time that he would no more have allowed her to do any one of these things than he would have permitted her to chop the winter's wood

Most of these day dreams, plots and imaginings were duly reported by letter to Miss Felicia to see what she thought of them all. For the dear lady's opposition had long since broken down. In these letters Ruth poured out her heart as she did to no one except Jack; each missive interspersed with asides as to how dear Jack was, and how considerate, and how it would not be a very long time before she would soon get the other half of the dear lady's laces, now that daddy and Jack (the boy had been given an interest in the business) were going to make lots of money on the new work-to all of which Miss Felicia replied that love in a garret was what might be expected of fools. but that love in a log-cabin could only be practiced by lunatics.

It was toward the close of this prehoney-moon-it lasted only ten days, but it was full moon every hour and no clouds-when, early one morning-before nine o'clock, really—a night message was handed to Jack. It had been sent to the brick office, but the telegraph boy, finding that building closed and abandoned, had delivered it to Mrs. Hicks, who, discovering it to be sealed, forwarded it at once, and by the same hand, to the MacFarlane house, known to everybody as the temporary headquarters, especially in the day time, of the young superintendent who was going to marry the daughter-"and there ain't a nicer, nor a better, nor a prettier."

On this morning, then, the two had planned a day in the woods back of the hills; Ruth's mare was to be hooked up to a hired buggy, and such comforts as a bucket of ice, lettuce sandwiches thin as wafers, a cold chicken, a spirit lamb teapot, and cups and saucers, not to mention a big shawl for my sweetheart to sit on, and another smaller one for her lovely shoulders when the cool of the evening came on, were to be stowed away under the seat.

"That telegram is from Aunt Felicia, I know," said Ruth. "She has set her heart on my coming up to Geneseo, but I cannot go, Jack. 1 don't want to be a minute away from you.'

Jack had now broken the seal and was scanning the contents. Instantly his face grew grave.

"No-it's not from Aunt Felicia," he said in a thoughtful tone, his eyes



Owing to the cessation of immigration, due to the war, farm help may be scarce this year and farmers are urged to send in their applications at once and secure their help immediately. Delay means possible disappointment.

FARM HELP

Address applications,-Bureau of Colonization, Parliament Buildings, Toronto.

Hon. Jas. S. Duff, Minister of Agriculture

H. A. MacDonell, **Director of Colonization**



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-not a cent of cost to vou — I pay freight. Everybody who has used this washer says it is the "best ever." Write me to-day personally for booklet and R. J. MORRIS

I will send you a "1900"

Gravity Washer

FREE TRIAL

for 30 days

Manager "1900 Washer Co. 357 Yonge St.

"1900 " Gravity Toronto, Can. WASHER Factory: 79-81 Portland Street, Toronto

QUICK NAPTHA THE WOMAN'S SOAP MADE IN CANADA

studying the despatch. "I don't know whom it's from; it is signed T. Ballantree; I never heard of him before. He wants me to meet him at the Astor House to-day at eleven o'clock. Some business of your father's, I expect-see, it's dated Morfordsburg. Too bad, isn't it, blessed-but I must go. Here boy" -this to the messenger, who was moving out of the door-"stop at the livery stable as you go by and tell them won't want the horse and wagon, that I'm going to New York. All in a lifetime, my blessed-but I'm dreadfully sorry.

"And you must go? Isn't it mean, Jack-and it's such a lovely day."

"Yes-but it can't be helped. What are you going to do with the sandwiches and chicken and things ? And you had so much trouble making them And you will be lonely, too.'

"Why, I shall keep them till you come back, and we'll have a lovely feast at " she said with a light laugh in her effort to hide her feelings. "Oh, no, I shan't be lonely. You won't be gone long, Jack, will you, dear ?"

"I hope not." His mind must no longer rest on the outing. There was work to do for Ruth as well as himself. His play time had come to ta sudden end; the bell had rung and recess was over. He looked at his watch; there was just time to catch the train.

She followed him to the door and kissed her hand as he swung down the path and through the gate, and watched him until he had disappeared behind the long wall of the factory; then she went in, put away the sandwiches and

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chicken, and the teapot and the cups and saucers, and emptied the ice.

Yes, the day was spoiled, she said to herself-part of it anyway; but the night would come, and with it Jack would burst in with news of all he had seen and done, and they would each have an end of the table; their last dinner in the old home, where everything on which hor eyes rested revived some memory of their happiness But then there would be other outings at Morfordshing, and so what mattered one lay when there were so many left? And with this thought ber teats dried up and she becan to srg again as she busied herself about the house-bursting into a refrain from one of the operas she loved, or crooning some of the oldtime melod es which her black mannay had taught her when a child.

But now for Jack and what the day aeld for him of wond'rs and surprises. Some resumatic viscaire has said that all the done and drea fat thangs in life drop out of a clear significant is the unexpected which is to be feared, and that the unknown bridges are the ones in which dangers lurk and where calanity is to be f ared.

The optimistic Scribe fittes has derivite thanab at such onlinous prophecies. Once in a while some rain does fall, and now and then a rear of thunder, or sharp slash of sleet will split the air during our journey through life, but the blue is always above, and the clouds but drifting ships that pass and are gone. In and through them all the warm. cheery sun fights on for joyous light and happy endings, and almost always wins

This time the unexpected took shape in the Jarson of T. Ballantree, from Morfordsburg-a plain, direct, straightt.-the-point kind of a man, whom Jack found in the corridor of the Astor House with his eyes on the clock,

"You are very prompt, Mr. Breen," he said in clear-cut tones. "so am I What I wanted to see you about is just this You own some ore property three miles east of the Maryland Mining Company's lay-out. Am 1 right ?"

"Yes, you are right." answered Jack with a comprehensive glance which began at the speaker's black dirby hat, traversid his suit of store clothes, and ended in a pair of boots which still showed some traces of yeliow clay, as if the wearer had been prespecting the day before. "Are there any encumbrances on the property- any mortgages or lines not yet recorded ? I den't mean taxes ; I find they have been paid," continued Ballantrea

Jack shifted his seat so he could get a fotter view of the speaker's face, and said in answer t

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"It is a low-grade ore, you know," explained Jack, feeling bound to express his own doubts of its value.

"No, it's a high-grade ore," returned Ballantree with some positiveness; "that is, it was when we got down into it. But I'm not here to talk about percent. age-that may come in later. I came to save Mr. Guthrae's time. I was to bring you down to see him if you were the man and elerything was clean, and if you'll go-and I wouldn't advise you to stay away-I Il neet you at his office at twelve o'clock sharp ; there's his card. It isn't more than four blocks from here."

Jack took the card, looked on bath sides of it, tacked it in his inside pocket, and said he would come, with pleasure. Ballantree nodded contentedly, pulled a cigar needs his upper breast poeset, bit off one eat, slid a match along his trousers with it burst into flame, held it to the unbitten end until it was a-light, blew out the blaze, ades ad his derby and with another nod to Jack-and the magic words-"Twilve -harp"-passed out into Broadway,

Ten minutes later-; erhaps five, for Jack arrived on the run-Jack bounded into Peter's bank, and slipping ahead of the line of depositors, thrust his overheated face into the opening. There he gasped out a bit of information that came near cracking the ostrich egg in two, so wide was the smile that overs read Peter's face.

"What-really! You don't say so! Telegraphed you ? Who ?"

"A Mr. Ballantree," panted Jack. "I have just left him at the Astor House." "I never heard of him. Look out, my boy--don't sign anything until you-" "Oh, he is only the general manager. lt's a Mr. Guthrie-Robert A. Guthriewho wants it. He sent Mr. Ballantree." "Robert Guthrie! The banker! That's our director; that's the man I told you of. I gave him your address. Go and see him by all means and tell him everything. Talk just as you would to me. One of the best men in the Street. Not

a crooked hair on his head Jack. Wellwell-this does look like business.' "Pardon me, sir, one minute, if you please-" interpolated Peter to an insistent depositor who Jack in his im-"Now you patience had crowded out. book-thank you- And Jack"-this over the hat of the depositor, his face a marvel of delight-"come to my rooms

at four-wait for me-I'll be there." Out again and around the block; anything to kill time until the precious hour should arrive. Lord!-how the minutes dragged. The hands of the old clock of Trinit, spire must be stuck to-Any other day it would take gether. nim at least half an hour to walk up Wall Street, down Broadway to the Battery and back again - now ten manutes was enough. Would the minute hand never climb up the face to the hour hand and the two get together at twelve, and so end his impatience. He wished now he had telegraphed to Ruth not to expect him until the late afternoon train. He thought he would do it now. Then he changed his mind. No: it would be better to await the result Yet still the clock of his interview. dragged on, and still he waited for the magic hour. Ten minutes to twelveive-then twelve precisely-but by this time he was closeted inside Mr. Guthrie's private office. Peter also found the hours dragging. What could it all mean ? he kept asking humself as he handed back the books through his window, his eyes wandering up to the old-fashioned clock. Robert Guthrie the banker-a real banker-had sent for the boy-Guthrie, who never made a too hurried move. Could it be possible that good fortune was coming to Jack?-that he and Ruth-that- Ab! old fellow, you nearly made a mistake with the amount of that check ! Nothere was no use in supposing. He would just wait for Jack's story. When he reached home he was still in the same overwrought, anyious statenoping against hope. When would the bey come? he asked himself a hundred times as he fussed about his room, nipring off the dead leaves from his gerations, drawing the red curtains back; spening and shutting the books, only to throw himself into a clar at last Should be snicke until four should be read? What a fool he was making of "self" It was astonishing that one of



simple every-day language, so that farmers will be able to do a great deal of their own business strictly in accordance with the law, without having to pay each time for a little bit of ordinary advice. It also gives simple and correct Forms for the prepara-tion of all kinds of legal documents that a farmer would ever have occasion to use. Chattel Mortgages and Bills of Sale are recard to the their toroche them the law in recard to

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tion of all kinds of legal documents that a farmer would ever have occasion to use. Chattel Mortgages and Bills of Sale are explained fully—bow to make them. the law in regard to them, and when to use them. Similar information is given regarding Cheques, Liens, Notes, Land Mortgages, Promissory regard to Line Fences; the use and form of Powers of Attorney, and in fact everything else that a farmer would require to know.

The book contains 453 pages, price \$2.00 in good cloth binding, and will be sent, postag-paid, when cash accompanies the order. Send your order direct to the publisher.

THE CARSWELL COMPANY, Limited, 19 DUNCAN ST., TORONTO, CANADA

The Chef Finds

that the word "flour" covers a wide range of grades. Since he is responsible for the cost as well as for the quality of all bread, pastry etc., that comes from his kitchen, he is only too pleased to use that wonderful







"When do you as 2^{10}

"Because," sold the non-water entropy frankness, "we such stand that the Maryland Mining Company Fave an option on it. If that is so, I'll stop where I am. We den't care to blick up activist Breek & Co."

"No," answered Jack, now convinced of the man's succeity, "ro-it's free and clear except for a loan of ten thousand dollars held by a friend, which can be paid off at any time,"

Ballantree ducked his head in token of his satisfaction over the statement and asked another question-this time with his eves straight on Jack,

"Is it for sale-new-for money of It was Jack's turn to focus his gaze. This was the first time any one had asked that question in the memory of

the oldest inhabitant. "Well, that depends on what it is wanted for, Mr. Ballantree," laughed Jack. He had already begun to like the norm γ And persaps, too, on who wants r = 1s/r for speculation 2^{**} Ballaufree lassied in return. "Nonot a square foot of it. I am the general manager of the Guthrae Steel Conpany with hands universiblere in New Verk, We have deed to ling for numeral go p that second of the State, and strake one. I night as well tell you that I hadd to fot has mass H " "A mer or experted asked dack

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his age proposition-really not a proposition at all, when he came to think of it-just an ordinary question asked. He must compose himself. It was quite absurd for him to go on this way. But would the boy never come? It was four o'clock now-or would be in ten minutes, and-and-

FEBRUARY 18, 1915

Yes! He sprang toward the door and caught the young fellow in his arms.

his age should be so excited over a mere

"Oh! such good news! Mr. Guthrie's bought the property!" roared Jack. He had made one long spring from the

sidewalk up three flights of steps to the old-fashioned door, but he still had breath to gasp the glad tidings. "Bought!-Who ?-not Guthrie !"

"Yes-I am to sign the papers tomorrow. Oh!-Uncle Peter, I am half crazy with delight!"

"Hurrah," shouted Peter. "Hurrah, I say! This is good news! Well !--Well!" He was still bending over him, his eyes blinking in his joy, scurries of irradiating smiles chasing each other over his face. Never had the old gentleman been in such a state. "And how much, Jack ?"

"Guess." "Will there be enough to pay Isaac's

ten thousand ?'' "More!'' Jack was nearly bursting. but he still held in.

"Twenty thousand?" This came timidly, fearing that it was too much, and yet hoping that it might be true. "More!" The strain on Jack was

getting dangerous. "Twenty-five thousand ?" Peter's voice now showed that he was convinced that this sum was too small.

'More! Go on, Uncle Peter ! Go on !' "Thirty-five thousand, Jack ?" It was

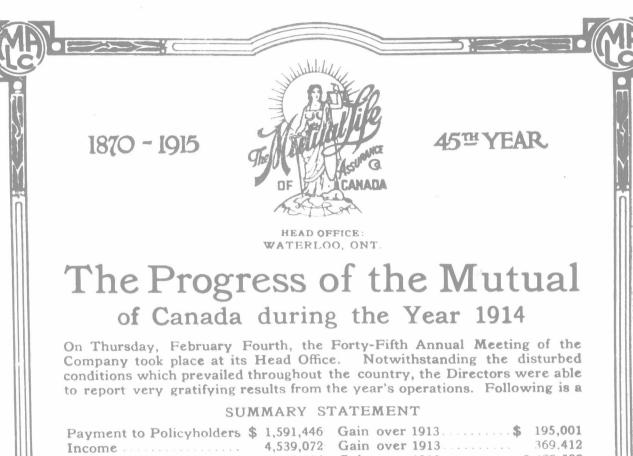
getting hot; certainly this was the limit. Was there ever such luck ?

"Yes!-and five thousand more! Forty thousand dollars and one-fifth interest in the output! Just think what Ruth will say. I've just sent her a telegram. Oh!-what a home-coming !''

And then, with Peter drawn up beside him, his face radiant and his eyes sparkling with joy, he poured out the story of the morning. How he had begun by telling Mr. Guthrie of his own and MacFarlane's opinion of the property, as he did not want to sell anything he himself considered worthless. How he had told him frankly what Peter had said of his-Mr. Guthrie's-fairness and honesty; how he was at work for his prospective father-in-law, the distinguished engineer of whom Mr. Guthrie had no doubt heard-at which the gentleman nodded. How this property had been given him by his father, and was

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THE FARMER'S ADVOCATE.



Income 4,539,072 Gain over 1913	9,412
Total Assets	
Surplus	
New Assurances 14,525,411 Gain over 1913 12	4,677
Assurance in force	5,333

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

SURPLUS EARNED DURING THE YEAR, \$1,035,778.14.

This assures the continuation of the payment of generous dividends to the participating Policyholders of the Company.

The steady growth of the Company is illustrated by the following

STATEMENT BY DECENNIAL PERIODS

Year	Income	Assets	Paid to Policyholders	Business in Force
	. \$ 22,797	\$ 33,721	\$ 5,854	\$ 856,500
1884				7,835,900
1894	659,989			18,767,698
1904				
1914	4,539,072	2 4,642 ,314	1,591,446	94,477,359

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

GEO. WEGENAST, MANAGING DIRECTOR. B. P. CLEMENT, PRESIDENT. 271

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all he had in the world except what he could earn; how he already owed ten thousand dollars and had pledged the property as part payment, and how, in view of these facts, he would take any sum over ten thousand dollars that Mr. Guthrie would give him. provided Mr. Guthrie thought it was worth that much.

"But I am buying, not selling, your land, young man," the banker had said. "I know it, sir, and I am willing to take your own figures, 'Jack replied-at which Mr. Guthrie had laughed in a kindly way, and had then called in Mr. Ballantree and another man; how the three had then talked in a corner, and how he had heard Mr. Guthrie say, "No, that is not fair-add another five thousand and increase the interest to one-slifth"; where poin the two men went out and came back later with a letter in duplicate, one of which Mr. Guthrie had signed, and the other which he, Jack signed and here was Mr. Guthrie's letter to prove it. With this Jack took out the document and laid if before Peter's delighted eyes; adding that the deeds and Isaac's release were to be signed in the morning, and that Mr. Guthrie had sent a special message by him to the effect that he very much wished Mr., Grayson would also be cresent when the final transfers would be sound and the money

Whereupon the Scille again maintains and he is rubble bus hands with the joy of it all as the does it-that there was more sunshire than clouds in this particular Unexpected, and that if all the boys in the world were as frank and sincere as yours Jack Breen, and



The Northern Life Assurance Company of Canada

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Extracts From The 18th Annual Report

For Year Ending 31st December, 1914

During the year satisfactory progress was made in all departments, the following facts being noteworthy.

1. The Insurances in force now total \$10,393,267.75, the net increase for the year being \$347,163.25,

2. The new business written, including revivals and other additions amounted to the sum of \$2,142,869.25.

3. The Company's Assets were increased by the sum of \$277,336.55 and now total \$2,328,884.90.

4. The premium income amounted to \$370,838.71, and the total income to \$500,345.20, which is \$53,530.90 more than for 1913.

5. Payments to policyholders amounted in all to \$70,454.02

6. The Reserve Funds held now total \$1,682,345.16, being an increase of \$206,536.75. This permits of an increase of \$190,112.59 in ordinary reserves, and creates a special fund of \$16,112.59 to provide for the increase in the standard of valuation as required at the close of 1915.

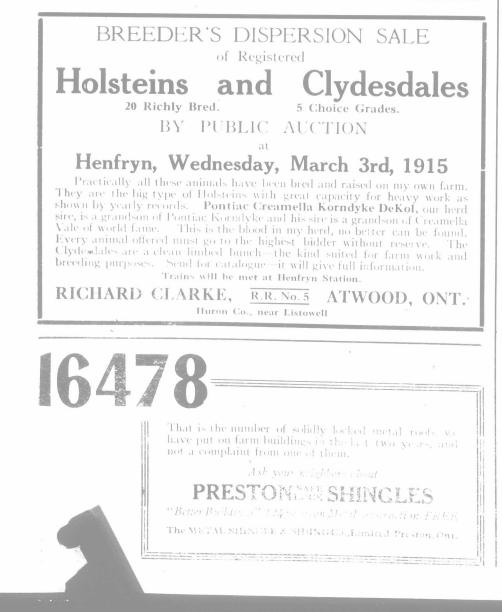
7. The average rate of interest earned was 6.78%.

8. The sum of \$53,595.28 has been added to the existing surplus, which now over all liabilities to policyholders amounts to \$610,477.93 and over all liabilities and capital totals \$129,900.43.

A copy of the complete statement will be mailed on request.

HEAD OFFICE LONDON, ONT. _ **Dominion Savings Building**

T. H. PURDOM, K.C., W. J. MCMURTRY, President. General Manager.



all the grown-ups as honest as old there wasn't enough for two, and Felicia all the grownrups as management of was a woman. No-be very careful of Robert Guthrie, the real banker, the was a woman. No-be very careful of jails would be empty and the millennium knocking at our doors.

Peter had drunk in every word of the story, bowing his head, fanning out his fingers, or interrupting with his cus-tomary "Well, well!" whenever some particular detail seemed to tend toward the final success.

And then, the story over, there came the part that Peter never forgot; that he has told me a dozen times and always with the same trembling toar under the cyclids, and the same quivering of his lower lip.

Jack had drawn his chair nearer the old gentleman, and had thrown one arm over the shoulder of his dearest friend in the world. There was a moment's silence as they sat there, and then Jack began. "There is something I want you to do for me. Uncle Peter." he said, drawing his arm closer till his own flesh cheek almost touched the head of the older man. "Please, don't refuse."

"Refuse, my dear boy! I am too happy to-day to refuse anything. Come, out with it."

"I am going to give you half of this money. I love you better than any one in this world except Ruth, and I want you to have itf'

Peter threw up his hands and sprang to his feet.

"What!-You want me to- Why, Jack! Are you crazy! Me! My dear boy, it's very lovely of you to wish to do it, but just think. Oh, you dear Jack! No! --no, no!" He was beating the air now deprecatingly with his outspread fingers as he strode around the room, laughing short laughs in his effort to keep back the tears.

Jack followed him in his circuit, talking all the while, until he had penned the old gentleman in a corner between the open desk and the window.

"But, Uncle Peter-think what you have done for me ! Do you suppose for one moment that I don't know that it was you and not I who sold the property? Do you think Mr. Guthrie would have added that five thousand dollars to the price if he hadn't wanted to help you as well as me?'

"Five thousand dollars, my dear Jack is no more to Robert Guthrie than a ferry ticket is to you or me. He gave you the full price because you trusted to his honesty and told him the truth, and he saw your inexperience.

"No-it was you he was thinking of, I tell you," protested Jack, with eager emphasis. "He would never have sent Ballantree for me had you not talked to him-and it has been so with everything since I knew you. You have been father, friend, everybody to me. You gave me Ruth and my work. Everything am I owe to you. You must—you shall have half of this money ! Ruth and I can be married, and that is all we want, and what is left I can put into our new work to help Mr. MacFarlane. Please, Uncle Peter!-we will both be so much happier if we know you in the rear of the tailor's shop the two share it with us." Here his voice rose old men sat talking. Peter kept noth-and a strain of determination rang ing back; his lips quivering again and through it. "And, by George!-Uncle Peter, the more I think of it, the more I am convinced that it is fair. It's yours-not mine. I will have it that way-you are getting old, and you need

FOUNDED 1866

gift money, my boy, and be very care ful, also, of too much of anybody's money-even your own. What makes me most glad in this whole affair is that Guthrie didn't give you a million-that might have spoilt you. This is just enough You and Ruth can start square. You can help Henry-and you ought to, he has been mighty good to you. And, best of all, you can keep at work. Yes -that's the best part of it-that you can keep at work. Go right on as you are; work every single day of your life, and earn your bread as you have done ever since you left New York, and one thing more, and don't you ever forget it: Be sure you take your proper share of fun and rest as you go. Eight hours' work, eight hours' play, eight hours' sleep-that's the golden rule and the only one to live by. Money will never get its grip on you if you keep this up. This fortune hasn't yell tightened its fingers around your throat, or you would never have come up here to give me half of it-and never let it] Money is your servant, my boy, not your master. And now go home and kiss Ruth for me, and tell her that 1 love her dearly. Wait a moment. will go with you as far as Isaac's.] am going to tell him the good news Then I'll have him measure me for a coat to dance at your wedding."

And the Unexpecteds are not yet over There was still another, of quite a diferent character, about to fall-and out of another clear sky, too-a sort of April-shower sky, where you get wet on one side of the street and keep dry on the other. Jack had the dry side this time, and went on his way rejoicing, but the head of the house of Breen caught the downpour, and a very wet downpour it was.

It all occurred when Jack was hurrying to the ferry and when he ran into the senior member of the firm, who was hurrying in the opposite direction.

"Ah, Jack!—the very man I wanted to see,'' cried Breen. "I was going to write you. There's something doing up in that ore country. Better drop in tomorrow, I may be able to handle it for you after all.'

"I am sorry, sir, but it's not for sale," said Jack, trying to smother his glee.

"Why ?" demanded Breen bluntly. "I have sold it to Mr. Robert Guthrie."

"Guthrie! The devil you say!-When?" "To-day. The final papers are signed Excuse me. I must catch to-morrow. my boat-" and away he went, his cup now brimming over, leaving Breen biting his lips and muttering to himself as he gazed after him

Peter broke into a laugh. It was the only way he could keep down the tears.

"What a dear boy you are, Jack," he said, backing toward the sofa and regaining his seat. "You've got a heart as big a a house, and I'm proud of you, but no-not a penny of your money. Think a moment ! Your father didn't leave the property to me-not any part of it—he left it to you, you spendthrift! When I get too old to work I am going up to Felicia's and pick out an easychair and sit in a corner and dry up gradually and be laid away in lavender. No, my lad, not a penny! Gift money should go to cripples and hypochondriacs, not to spry old gentlemen. 1 would not take it from my own father's estate when I was your age, and I certainly won't take it now from you. I made Felicia take it all." Jack opened his eyes. He had often wondered why Peter had so little and she so much. "Oh, yes, nearly forty years ago! But I have never regretted it since! And you must see how just it was, for

"Guthrie!--My customer! Damn that boy-I might have known he would land on his feet."

But Jack kept on home to his sweet, heart, most of the way in the air.

Down in the little room all this time ing back; his lips quivering again and another unbidden tear peeping over the edge of his eyelid when he told of Jack's offer.

"A dear boy, Isaac-yes, a dear boy He never thinks with his head-only with his heart. Never has since I knew him. Impassive, emotional, unpractical, no doubt-and yet somehow he always wins Queer-very queer! He comes upstairs to me and I start out on a fool's errand. He goes down to you, and you hand him out your money. gives it all away the next day, and then we have Guthrie doubling the price Queer, I tell you, Isaac-extraordinary that's what it is-almost uncanny."

The Jew threw away his cigar, rested his short elbows on the arms of his chair, and made a basket of his hands. the tips of all his fingers touching.

"No, you are wrong, my good friend It is not extraordinary and it is not uncanny. It is very simple-exceedingly simple. Nobody runs over a child if he can help it. Even a thief will bring you back your pocket-book if you trust him to take care of it. It is the trusting that does it. Few men, no matter how crooked, can resist the temptation of reaching, if only for a moment, an honest man's level."

(To be continued.)

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A Few Paragraphs From This Great Book

273

"How often have you come in from the fields after a hard day's labor anticipating an evening of relaxation previously planned. an evening of retaration provides, per-Perhaps there is a social tonight. Possibly the Grange is meeting. Possibly there is a good show in town. Maybe you want to get some information from Jones about that new dairy feed he is so enthusiastic about.

"But after the chores are done and the supper cleared away, you think of the effort needed to go out. You think of hitching up the tired horses. You think of the long drive, the late return home. You think of putting up the horses, perhaps bedding them—all in the dim light of a lantern."

"You think of all these things and then, tired already from your day's toil, you decide not to go. You need recreation, but the effort required to get it is too great. So you stay home.'

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THE FARMER'S ADVOCATE.

The first page of this great book will set you to thinking.

It is written by an authority — a man who has lived your life with and without a car - a man who knows what he is talking about.

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It tells things in a different light. It will open your eyes to immense possibilities-from both a practical and a pleasure standpoint.

It is not a pretty, useless piece of literature but a highly practical and useful book of solid information.

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SYDNEY BASIC SLAG

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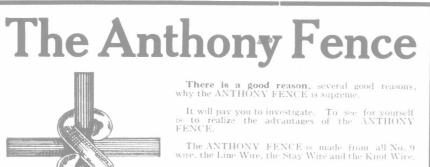
To get the best results out of your land, you must use fertilizer. Practically every farmer now realizes this. The question then is what is the best fertilizer to use. Hundreds of the leading farmers in Ontario have used

Sydney Basic Slag

during the last two years, and have got as good results as from fertilizers costing from \$10 to \$15 per ton more money. If we have no agent in your district, we will send you a ton direct from the factory for \$20, delivered free at any station in Ontario, cash with order.

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The Cross Fertilizer Co., Limited SYDNEY, NOVA SCOTIA Agents Wanted in Unrepresented Districts



The ANTHONY FENCE is made accurately and

Questions and Answers. 1st—Questions asked by bona-fide subscribers to "The Farmer's Advocate" are answered in this

The range range and the range of the range

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

Miscellaneous.

Books on Sheep. Have you any books on sheep, care and

management, and common diseases ? If so, give me prices. J. F.

Sheep Breeds and Management," written are bulls. They are a splendid lot. by Shepherd Boy, which discusses the breeds of sheep and deals with the common diseases of same, with their treatment. This may be procured through sale affords a splendid opportunity t_0 this office for \$1.50, postpaid.

Whey for Fee J.

Will you kindly tell me, through the columns of your valuable paper, what whey from the cheese factory is worth for hog feeding after the butter-fat has tion, apply to J. M. Duff, Guelph, been removed, compared with skim milk or ordinary whey? W. D. G. Ans .- According to tests made at the O. A. College, Guelph, when separated whey, or whey with fat removed, was

worth 100, the ordinary whey was worth 125 to 133, or from 25 to 33 per cent. The average of two tests made in 1909, showed that 100 lbs. of separated whey was worth 9.12 lbs, meal fed to pigs, while the ordinary whey, containing the fat, was worth 12.13 lbs. Leaving out the decimal points, if meal be worth one cent per pound, the relative values of separated and ordinary whey are 9c. and 12c. respectively per 100 lbs., according to these experiments; and if meal he worth a higher

the whey would be worth relatively more. although in actual practice it might be difficult to make this out of whey fed to hogs. A good deal would depend on the kind of hogs, skill of feeder, selling price, etc. In the same series of expe

skim milk had relative feeding values of 163.5, as compared with 100 for separated whey in 1908; and in 1909 the relative values of ordinary whey and skim milk were 100 and 129.5 respec-H. H. D.

Orchard Defoliate 1 Grape Vine Flea Beetle.

1. We had our orchard completely stripped of its leaves last spring soon after coming out in leaf by little green worms about three-quarters of an inch

FOUNDED 1866 FEBRUARY 1

likely to trouble next year even with greater vengeance.

2. The blue beetle mentioned here is quite likely the Grape Vine Flea Beetle. It is capable of doing considerable damage, but can be controlled by poisoned bordeaux. From 2 to 21 pounds of arsenate of lead to 40 gallons of bordeaux early in the spring will allay danger

Gossip.

Those in charge of the sale of purebred stock of beef breeds to be held in the Winter Fair Building, Guelph, on Wednesday, March Srd, say that forty-Ans.—There is a book entitled "Modern – eight head are listed, and most of them Several have been excellent show calves. and are excellent breeders. A few very nice heifers are also consigned. This anyone requiring a young bull or heifer. no matter where they live, as the O_{II-II} tario Department of Agriculture will refund the amount of the freight charges on single shipments to any point in Ontario. For catalogue, or any informa-

THE CLARKE SALE.

Amongst the particularly good herds that are being offered at public auction this spring is the one of Richard Clarke, Atwood, Ont. Mr. Clarke has been in the pure-bred Holstein business some years, and, in fact, he still has on hand a number of his splendid grades which will also be offered at his sale on Wednesday, March 3rd. The pure-bred animals are a credit to any young breeder. Of the ten mature cows that he will sell, Fancy B. Posch is his foundation animal, and the bulk of his herd is descended from her. This mature cow has a reputation of being up to a high standard. She is built in every way to conform to the requirements of highproducing stock. Two "chips off the old block' will also be sold. They are a five-year-old and a four-year-old daughter of Fancy B. Posch. They carry the strong constitution and capacity of their dam. Both will freshen from Mr. Clarke's herd sire. Pontiac Creamella Korndyke De Kol. Sadie Teake De Kol is another cow very similar to the foundation cow previously mentioned She has type. capacity, and a well-balanced udder, and she throws the right kind of calves. She, with her stall mate Korndyke De Kol Daisy, is of the Mallory breeding Some Clydesdales will also be sold. For catalogues, write to Richard Clarke, At-wood, Ont., R. R. No. 5. On day of On day of sale, trains will be met at Henfryn Staa mile from the place of sale

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and the stay where always parallel with the posts. And the fence does not bend down at the top or roll

SEE THAT KNOT the ANTHONY KNOT! The greatest of all! The famous ANTHONY KNOT! The one perfect fence tie! The smoothest, tightest, and most compact tie! The smoothest, tightest, and most compact wites. And it holds fast summer and winter.

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back up in the middle and shoving its head forward. At the close of its career it dropped from the tree by a slender thread, like a spider. The trees leafed out again, but hore no apples. We plowed the orchard, but it had not been plowed for several years. Are they likely to trouble me next year, and if so, could you suggest a remedy?

2. The blue beetle attacked our grape vines as soon in the spring as they started to hud. How can I combat ENTHUSIASTIC.

An. -1. From the description given of After it has reached its maturity as a arva if descends to the ground or the trunk of the tree by this small threadnicals. From two to two and one-half pounds of arsenate of lead to forty gallons of water will control the Canker the arseneals are usually mixed with bordenus or line sulphur, which are used for other purposes on the orchard. Follow the deriv ralendar which is so widely distributed in the spring, and which for a few seasons past has appeared in The Varmer's Advocate." They are force now amounts to \$94,477,359.

THE SALE AL OF CANADA.

The past year has been one during which financial institutions have had wind and tide against them. Among all such, none have withstood the stress and strain more successfully than the life insurance companies. Thousands of policy holders have found that while many of the securities held by them fell in value or became worthless, their lifeinsurance contracts remained all unaffected jublic confidence in the institution of life insurance was never more deep-seated than at the present time, and it is safe to predict that there will be a wonderful expansion of business for all companies when normal conditions are

The Mutual Life Insurance Company of Canada, whose annual statement is published on another page, is proof of this statement. The only effect the panic of war had on the company was in the amount of new husiness written. In stead of the usual 10 to 20 per centincrease in the amount of new business written, they were contented, on account of heavy weather, which all companies were called upon to meet, with duplicating the amount written in 1913, with a small margin in favor of 1911. The actual figures for 1913 were \$14. 400,734, and for 1914, \$14,525,411. This result achieved in such a year as 1914, shows what a strong place the Mutual holds in the confidence of the Canadian public. Their total insurance in

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THE FARMER'S ADVOCATE.

ONTARIO

SEND FOR

OUR LIST

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ABOUT FARM LAND

GARD

Questions and Answers. Miscellaneous.

Breed of Cattle.

1. What would be the best breed of cattle to keep for beef to fatten on pasture ?

2. Would it pay to keep pure-bred stock for beef only? G. S.

Ans.-1. Herefords are good grazers. Herefords, Shorthorns or Angus, would do all right.

2. It has paid many a man.

Cattle Chewing Bones.

I have some calves that persist in chewing wood. Kindly tell me, through the columns of your paper, what the cause is, and what I could give them to J. A. M. stop the habit?

Ans .- The chewing of bones, wood, etc. is a habit supposed to be induced by a lack of phosphates in the food. An application of bone meal, or Thomas' Phosphate Powder to the pasture has been known to check the craving. Meantime give all the salt they will take, and give the calves from one-half to three-quarters of an ounce phosphate of lime in a pint of water as a drench once daily, or in a little bran or chop. A small closed handful of sifted wood ashes in meal once or twice a week is believed to have a beneficial effect.

Farming on Shares.

A lets his farm out on shares to B. The farm consists of 150 acres. He also lets his stock out on shares to B, consisting of 4 horses, 15 cows, and 10 sows. B agrees to work the land in a good husband-like manner, and also agrees to take good care of all stock, and feed in a good and practicable manner. A agrees to furnish all seed for 1914 seeding, and B agrees to return one-half of seed when harvested and threshed. It is also agreed by both parties that if they cannot agree as to the division of the property, this is to be settled by arbitration.

1. B bought a fifth horse and used it as one of the main horses. Can A compel B to pay for half of its feed ?

2. Can A compel B to pay for half of grass seed used for seeding in 1914 ? B had none to harvest or thresh.

3. B did 30 acres of plowing for A There were 15 acres done when B took the place. Nothing is mentioned about plowing in the writings. Can B collect pay for plowing, and how much per acre? SUBSCRIBER. Ontario.

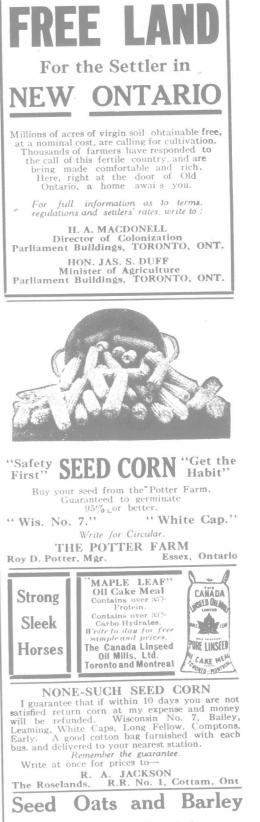
Ans.-1. We think so.

2. Yes.

3. We do not see that he is in a position to do so.

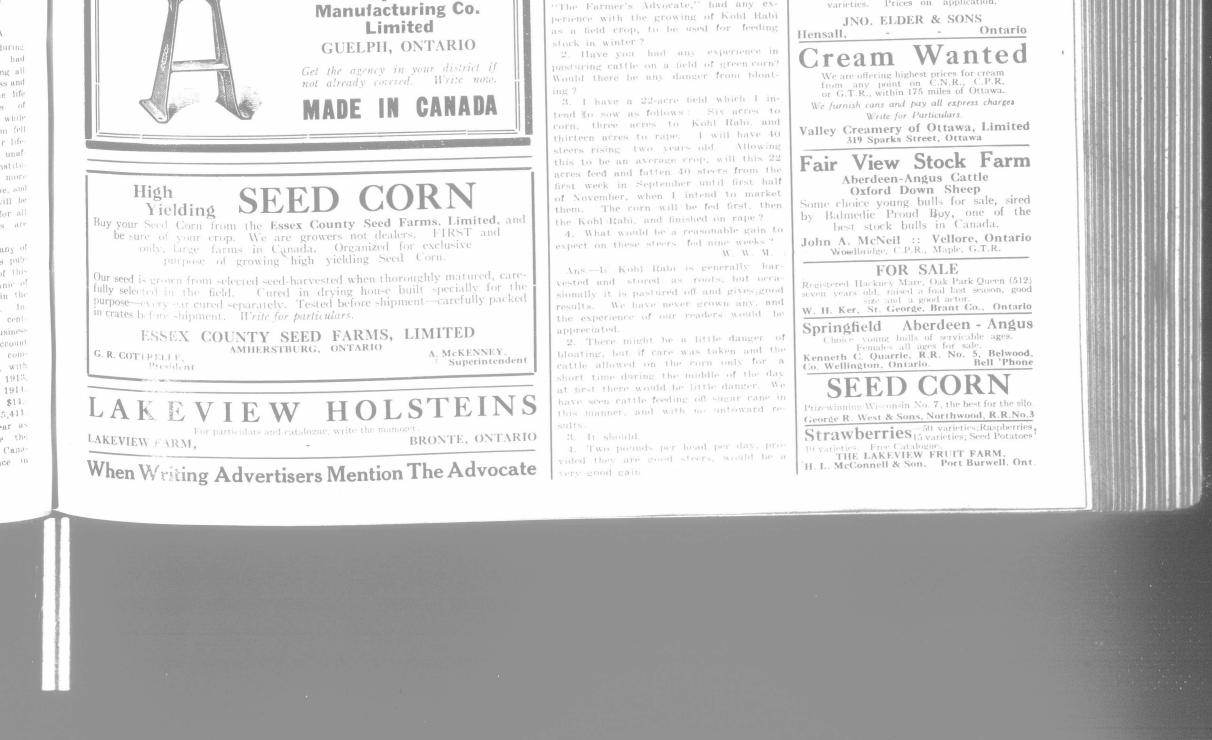
Fall Feeds for Fattening Cattle.

1. Have you or any of the readers of 'The Farmer's Advocate," had any ex-



275

We can supply you with good, clean, plump, home-grown O. A. C. 21 Barley, O. A. C. 72 Oats and Im-proved Siberian Oats. The best varieties. Prices on application.



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THE FARMER'S ADVOCATE. مهاز از هسمه از از ه

INUNDED 1866

Circumstances govern cases and I am the victim of circumstances. I was born with an innate love for horses and have spent my life breeding them. I have the largest stud of Clydesdales in Ontario and am forced to sell them, so at my farm, one mile south of Fletcher station, M.C.R., and three miles north of Merlin station, P.M.R., in Kent County, on

Tuesday, March 9th, 1915

I will sell by auction absolutely without reserve, 24 registered Clydesdales, 12 stallions from one to eight years of age, imported and Canadian-bred; 12 fillies and mares from foals up, imported and Canadian-bred. They are a high-class lot, many of them prizewinners of note. I will also sell 16 grade Clydesdales, geldings and mares, and the Standard-bred stallion, R. J. Mac.-587-51558(a), a beautiful black, rising six years; also 30 grade Shorthorn steers; one and two years; 25 dairy cows, mostly Holstein grades; 20 grade Oxford Down sheep, and 12 grade Tamworth brood sows.

Conveyances will meet all trains up to noon at both Fletcher and Merlin stations.

Terms: 9 months on Bankable paper for all stock except the stallions, for them 12 months credit will be given, 6%, off for cash.

Write for Catalogue to W. H. Mancell, Fletcher, Ontario.

AUCTIONEERS CAPT. T. E. ROBSON, LONDON McCOIG & HARRISON, CHATHAM

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DISPERSION SALE

I have sold my farm and am going out of business. I have always had a hobby for pure-bred stock, and after years of careful selection and breeding which cost me a lot of money, I am vain enough to think I have stocked my farm with a pretty good lot of registered Clydesdales: Six mares, supposed to be in foal (two imported) and two stallions (one imported). Hackneys, 1 filly and 2 stallions. Twentyfive head of Holsteins, including my two-year-old bull, King Fayne Schuiling, 15873. 20 Leicester ewes, in lamb; 20 Yorkshires, a number of them young sows bred; About the same number of Berkshires of both sexes and various ages. Two registered Shorthorn cows, bred to Roan Baron 2nd 88046, and on

Thursday, February 25th, 1915

they are yours at your own price. The sale will be held at the farm, Sprucedale, 4 miles west of St. Thomas, Ontario. Conveyances will be at the Grand Central Hotel, St. Thomas, at noon to convey visitors to the farm. Parties wishing to come on previous day will be accommodated. For others not interested in registered stock, I will sell at the same sale, 20 head of Grade horses and colts, Clydes, Percherons and Hackneys; also 30 feeding, grade Shorthorn steers, two-years-old; 8 grade Shropshire ewes in lamb and

Gossip.

SOME SHORTHORN BULLS LEFT. Richardson Bros., of Columbus, Ont. report a number of sales of herd headers from their big, heavily-fleshed herd of Shorthorns, but wish to intimate that the good ones are not all gone by any means, and that they are in a position to supply a limited number of the thick. good-doing and richly-bred kind. Write

THE MCCONKEY HOLSTEIN SALE Among the females to be sold at the Holstein dispersion sale of N. H. Mc-Conkey, at Straffordville, on Thursday, February 25, are daughters of such great Brookbank Butter Baron with 30 R. O. M. daughters and four sons. Included among the daughters is the great cow, Queen Butter Baroness, record 33.17, and Sir Pietertje Jesephine Keyes, with 16 R. O. M. daughters and four sons. Official backing on both sides for generabut a number of them have, and the records range from 13.38 to 15.03 lbs. there will be sold a nomber of high-grade Tanuworth sows, safe in pig. as well as a number of younger ones of both sexu

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Now that the new pure maple law is in force, there is a greater demand for PURE Maple Syrup and Sugar.

This is your opportunity to increase your income by tapping every maple tree you own. If you are not quite sure how to go about it, we will be pleased to give you fullest informa-tion without charge, and at the same time tell you about the

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Get ready now to tap in the spring. Grimm Manufacturing Co., Limited 41 Wellington Street, Montreal The Champion



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THE FARMER'S ADVOCATE.

Ouestions and Answers. Veterinary.

Inappetence.

Cows are not doing well. They are fed on silage, whole mangels, and out chop. They have poor appetites, and do not drink much. Have no clover hay, but have out straw. E. McD. Ans .- The feeding of whole mangels has not generally given satisfaction. If you can pulp your mangels and cut some straw or hay and mix all together and spread the chop on top, you will get better results than by feeding the silage without mixture. Mix equal parts by weight of sulphate of iron, gentian, ginger, and nux vomica, and give a table spoonful to each cow three times daily. either mixed with a pint of water and given as a drench, or, if they will eat it, mixed with moist food.

Cracked Heels.

Horse's legs have been swelling when standing since last fall. Now cracks in the skin have appeared in the heels. especially on one leg. He seems stiff S. W and sore in both hind legs.

Ans .- This is called cracked heels or scratches. Give him a purgative of 8 drams aloes and 2 drams ginger, and after the bowels have again become normal, give him 1 ounce Fowler's Solution of Arsenic twice daily for a week. Apply hot poultices of linseed meal to the cracked heels for two days and a night. and then dress three times daily with 1 part carbolic acid to 30 parts sweet oil. If you intend allowing him to stand idle, dress with a lotion made of 1 ounce each of acetate of lead and sulphate of zinc to a pint of water instead of oil, but apply the oil before taking him out in the cold.

Mange.

We got a dog that had mange. We treated with sulphur and lard and cured him. Now two cats and a cow has it. Is it wise to keep the dog now that he E.H. is cured ?

Ans.-As the dog is cured, he can do no further harm. If this really be mange, you should notify the Veterinary Director General at Ottawa, and he will send a veterinary to your place to investigate. We are of the opinion that it is eczema, but if so, one animal would not contract it from another. In the meantime it would be well to treat the cats the same as you did the dog. Make a warm five-per-cent, solution of Creolin and give the cow a thorough washing with it, using a scrubbing brush. Repeat in five or six days, and again if necessary. It would be wise to have your veterinarian examine the stock, as

MANURE BUY YOUR Between now and seeding time, 10 tons of Caledonia Marl (Lime Carbonate) could absorb from your stable floor \$40.00 worth of am-

LET LIQUID

This Marl (Nature's insecticide. Lime) could then be put on your soil to increase each acre's pro-ductively \$15.00 a year, as it did for Mr. L. J. Rounds, for instance.

What One Farmer Found Out

One wide-awake Ontario farmer found that each ton of this Caledonia Marl absorbed nearly \$4 worth of ammonia and potash from the stable floor-so that, as an absorbent of liquid manure, the Marl practically paid for itself. And yet, as just plain lime for the land (even if its absorbent qualities were ignored) Caledonia Marl would be worth more to you than any other kind. Then, too, this is the ONLY lime that can be used as a deodorizer and insecticide-sanitizing the

monia and potash - in addition

to acting as a deodorizer and

stable without expense-in fact, while gathering up for your profit the otherwise wasted ammonia and

potash so valuable to your farm. The war makes Canada the Empire's food-farm. If you get some Caledonia Marl right now, you can make this spring's crops the biggest yet. Here is an op-portunity for profit that no real live Canadian farmer can afford to put off. Write to-day for explanatory

booklet, etc.

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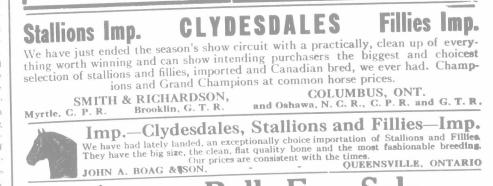
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For the cure of Spavins, Ringbone, Curbs, Splints, Windgalls, Capped Hocks, Strains or Bruises, Thick Neck from Distemper, Ring-worm on cattle, and

to remove all unnatur-al enlarge-ments. This pre-This pre-paration, unlike paration, unl

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any unhealthy sore quickly as it is a positive antiseptio and gerinicide. Pleasant to use; does not blister under bandage or re move the hair, and you can work X the horse. \$2.00 per bottle, delivered. Book 7 K free.

ABSORBINE, JR., antreptic liniment for mankind Reduces Painful, Swollen Veins, Goitre, Wens, Strains, Bruises, stops pain and inflammation. Price \$1.00 per bottle # dealers or delivered. Will tell you more if you write Manufectured each bar W.F. YOUNG, P.D.F. 258 Lymans Bldg., Montreal, Can.

ACME FOR SALE

ashe and under, females all b to give all our attention r Acme (imp.), by Baron's ashe only horse in America ashereding list in Scotland. at and broken to harness, a trsing 5 years sure and Holstein Bulls 11 ages. We have de to Holsteins and of Pride for sale. If that has stood each Sound own and Sound, sure and Also Torrs Type (tounders b) (foundered).

R. No. 4, Port Perrý, Ontario Manchester et al., Myrthe C.P.R.

Stormary Medical Wonder (2000 \$1.00 bottles to horse-Wonder a fair trial. Guar-sion of the Lungs, Bowels, tempers, etc., Send 10 cents (20. Agents wanted. Write Bell, V.S., Kingston, Ont. Dr. Bell's men who will g vanteed for init. Kidneys, Fevers for mailing, pack ddress plainly

Clydesdales, therns, Cotswolds and Stallions, several imp.
 Inchest quality, choicest con bulls and Heifers;
 I atabs; Yerkshires, both Yorkshires: lyde Mares needers, See otswold Rar ---- Goodfello Bolton, Ont.R.R.No.3

Clydesdales nd Shorthorns. Young ettain winners and all superior quarty is and some hence and some will be shows. Young builts as a day. Compared to them. PETE 1990 (IRTSTIE & SON, Manchester, P.O. (IRTSTIE & SON,

if the trouble he mange it is a very serious matter, and must be reported to the Government.

Cause of Scratches -Ringbone.

1. What causes scratches in horses? 2. Colt has ringbone. Shall I cut the feeder out, or how should it he treated ?

Ans.-1. High feeding and little exercise predispose to scratches. The exciting causes are dirt, moisture, heat and cold, dry and wet operating alternately. washing the legs and not then rubbing until thoroughly dry, etc.

2. Ringbones, have no feeders. Get your veterinarian to fire and blister. In some cases blistering alone will cure the

Miscellaneous.

Misrepresented Pedigree.

A is a breeder and dealer in pare-bred cattle. A sends word to B that be has a bull for sale. B goes and sees the bull. A tells B about what a good pedigree this bull has, and recommends him so highly that B buys the bull. In a few months after. B receives pedigree a new months after. In reserves, hangebox, and it is nothing like χ represented it to be, Is χ hable for insrepresenting the bull ", ST BSCRIBER,

 $\chi_{\rm HS}$ = 1: would seen that χ is hable in this case. All you are required to do is to prove that he misrepresented the hull. As to the amount of domages we are not prepared to state.



Gossip.

LAST CALL FOR WATSON'S SALE. There is a wide margin of interest to he general public between an auction where there is a selection of several breeds for sale and an event where there is only one breed to offer. At the big dispersion sale of A. Watson & Sons, west of St. Thomas, on Thursday, Feb. 25th, there will be Clydesdales and Hackneys, stallions, mares and fillies of both breeds; Holsteins, bulls and females; Leicester ewes, Yorkshires and Berkshires of both sexes and almost any desired age. This big selection in numbers and breeds should prove a great drawing card, and more so now than ever before because the live-stock industry, particularly in pure-breds, was never so promising, nor the future never so bright. Renember the date, and arrange to attend.

F. E. PETTIT'S DISPERSION HOL-STEIN SALE.

Having decided to retire from farming E. Pettit, of Burgessville, Ont., in Oxford county, has arranged to sell by auction at his farm, The Ferns, one mile north and one mile west of Burgessville Station, and ten miles south of Woodstock, on Wednesday, March 10, his entire herd of thirty-five Holsteins, the result of twelve years' careful breeding. selecting, and official testing. It is an absolute dispersion sale, with no reserve whatever. The cattle will be in the nicest kind of condition. In case of cold or stormy weather the sale will be held under cover. Conveyances will meet all morning trains at Burgessville Station; Woodstock from the north, connecting with the morning trains from Toronto and London; Norwich Junction on the south, connecting with morning trains from St. Thomas, Canfield Junction, Welland Junction, and Fort Erie. For catalogues, write F. E. Pettit, Burgess ville, Ont

A SALE OF PURE-BREDS AND GRADES.

An auction sale carrying a wide scope of interest to farmers generally, and Clydesdale breeders particularly, will be the big dispersion sale of registered Clydesdale stallions, mares and fillies grade Clydesdale mares and geldings grade Shorthorn steers, grade dairy cows, grade Oxford Down sheep, and grade Tamworth brood sows, together with a full line of farm implements, which are the property of W. H. Mancell, Fletcher, Ont. The date is Tuesday March 9, 1915. The farm is one mile south of Eletcher Station on the M. C. R., and three miles north of Merlin Station on the P. M. R. trains. M. C. R., from St. Thomas, will connect at Charing Cross with the



Farm ¼ mile from Burlington Jet

278

THE TIME, NOW! All the winter long, the troubled owner of a lame horse reads our advertisements. Then, day after day slips away, while he talks, laments, listens, takes advice and hesitating-FAILS TO ACT -till the Springtime is on him and his horse is not yet able to work. Mean-

(Made in Canada)

SAVE-THE-HORSE

time the thrifty, prosperous, resolute man, reads, considers the evidence carefully-Decides Promptly-and his horse is quickly cured, worked, too, if needed. That's exactly what happens every year.

Send for our 96, page "Save-The-Horse BOOK." It explains all about our system of treatment-tells exact-ly how to go about it to get the best results in the up-to-late treatment of Ringbone-Theropion-SPAVIN -and ALL-Should r, Knee, Ankie, Hoof and Tendon 1 sease-Tells How to Test for Spavin; how to locate and treat 58 forms of LAMENESS - Illustrated. WE ARE THE ORIGINATORS of the Plan of-Treating Horses Under Signed Contract to Return Money if Remedy Fails. 19 Years a Success. ontract to Return But write and we will send our-BOOK-Sample Contract and Advice - ALL FREE to (Horse Owners and Managers-Only.) Address

TROY CHEMICAL CO., 145 Van Horn Street, Toronto, Ont.

Druggists everywhere sell Save-The-Horse WITH CONTRACT, or we send by Parcel Post or Express Paid.



100 McKinley & Rawlings, Props. Apply to: JOHN RAWLINGS, Forest, Ont FEBRUARY 18

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Tag your stock-identification for

Catalog and s F.S. Burch & C



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THE FARMER'S ADVOCATE.

Questions and Answers. Miscellaneous.

Feed for Dairy Cows. I am feeding my dairy cattle 15 pounds

of good clover hay, 14 pounds of turnips. 2 pounds of bran, 31 pounds of shorts 2 pounds of oil-cake meal. Please let me know whether this is a good balanced ration. J. R. K.

Ans .- This is a narrow ration, about 1 to 4.5. It would be better to add some other grain as corn meal or oat chop (the former is cheaper this winter), and possibly give a few more roots or some straw or silage if you have it.

Treacle With Calves.

Is treacle equal to other feeds for young calves, to be used in the skim milk, and what quantity would it be advisable to give to a feed? E. C.

Ans .- Experiments carried on in the United States have led the experimenters to believe that black-strap molasses is too laxative in its effect to have any appreciable value as a supplement to skim milk in the feeding of calves. We would advise that you use flaxseed meal.

Mare Aborts.

1. I have a mare that was due to have a colt in May. She caught cold, and we gave her a pint of raw linseed oil and two teaspoonfuls of turpentine, and she lost her colt. Was it the turpentine that caused it ?

2. I would like to breed her this spring. What would be the best to give her? Is there any powder or medicine E. M. for it?

Ans.-1. It is always well to avoid giving drugs to in-foal mares. It is possible that the turpentine may have had some detrimental affect. The linseed oil should have done no damage. It is more probable, however, that the mare was injured in some manner.

2. We know of no drug which would meet your requirements in this case. Be careful with the mare. Feed on good, clean feed, and in case you have any suspicions of contagious abortion we would advise that you read the article on this subject in the Horse Department of our issue of Feb. 11.

Tuberculosis.

1. I have a flock of about 125 hens, and some of them have a disease which I think is tuberculosis. The first thing I notice they are lame, usually on the right leg, and soon their combs turn pale. Our hens have had it for two or three years. What is the best and cheapest method to clean out the disease? I have been thinking of keeping this flock until about August, when the laying season is about over, and then sell them all off and thoroughly clean and disinfect the henhouse, then buy

Progressive Jones sugs : "Grow Bigger Crops During the War"

HIS is the Canadian farmer's golden harvest-time. With wheat selling over the dollar mark, and other

grains and vegetables bringing war-time prices, farmers should do their utmost to grow as big crops as possible this year. This, friends, is the time of all times to enrich your soil with



It is the sure way to make your soil yield bumper crops and make more money for you. By using the proper fertilizers you can greatly increase your yield at no extra cost of labor or seed. Would it not pay you to grow the maximum from your soil?

If Harab Fertilizers were not exceptionally profitable to use, I don't think there would be such a great and growing demand for them, do you? But perhaps you would like to read the new fertifizer booklet that describes them fully. If so, just drop a card to

The Ontario Fertilizers Limited, and say "Please send me your new Harab Fertilizer booklet." They have promised me to send my friends this booklet promptly without charge.

Manes for bamper crops,

Progressive Jones

The Ontario Fertilizers Limited, West Toronto, Canada



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If you've been in the habit of using Davies' Fertilizers, keep on using them. They are excellent fertilizers. It's mere-Iv a matter of choice between Harab and Davies'. The Ontario Fertilizers Limited supply both.



ONT.

Vedding adhooks TARIO of thick

Ont. want of the best imber of females. , Ont.

f on ac-short of **CARIO**

wants.

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d, their. ntario

SHORTHORNS S bulls from 7 to 15 months, some are herd headers both in quality, size and breeding, some are thick, Beshy, sappy bulls that will get good steers, also 10 befers and a few young cows bred on milking lines; prices casy. Write me your wants. lines; prices easy

F.S. Burch & Co., 173 W, Huren St. Chie

STEWART M. GRAHAM, UNDSAY, ONTARIO

Oakland--61 Shorthorns

Present offering: 4 roam bulls 10 to 12 months, 2 Reds, older; also matured cows and heifers. Mostly fred by one of the best Roam bulls in Ontario. Inspect this dual purpos?, prolific herd, or write:----Ino. Elder & Sons, Hensall, Ontario

Spring Valley Shorthorns Herd headed by the two great breeding bulls Newton Ringleader (http://73783, and Nonpariel Ramsden 83422. Can supply a few of either sex. KYLE BROS., BROS., - DRUMBO, ONTARIO 'Phone and Telegraph via Ayr.

R.O.P. Shorthorns. Prizewinniing Yorkshires Lean supply vocate builts bred the same as the Guelph Dairy Test Women this year and out of R.O.P. dams. Vocate source this year and out of R.O.P. dams. Vocate source to farrow in Feb., also bars all of shew earlier. A. STEVENSON, Atwood, R.R. No. 4. - Atwood, Sta.

Scotch Shorthorns, S. C. White Leg-Reg. Banner Oots for sale. Three choice young roan bulls, high class herd headers and females of different ages. C.FO. D. FLETCHER, Erin, R.R. No. 2, 1 (D) Phone. Erin Sta., C.P.R.

6 SHORTHORN BULLS

Software and sound sound sorvice and quality, s.2 cover milking up to 50 lbs. Prices easy. Theories GRAHAM, R.R. No. 3. Port Perry, Ont. - Port Perry, Ont.

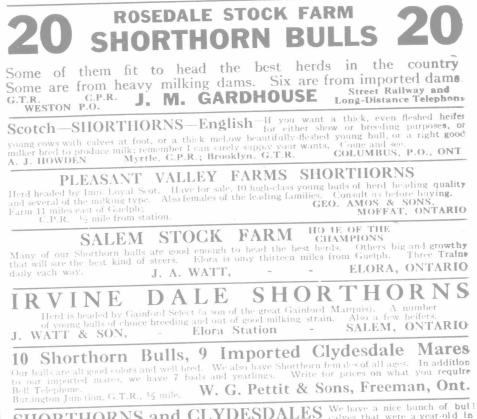
Shorthorness and Swine – Have some also cows and here a show material, some with calves at foot. A show material, some with ANDREW GROFT, K. R. No. 1, ELORA, ONT.

free from the disease, and keep them in then sprinkle slaked lime all over the runs before letting them out. Do you think I could stamp out the disease in that way, or do you think I could get rid of it just by killing them as soon as I see one diseased, and disinfect the henhouse every two or three weeks? I kill and burn about one or two a week as soon as 1 see one effected. 2. Could you also give me full instruc

tions how to test cattle for tuberculosis and where a person can get the tubercu and where a person two still line which is used for injecting in test ing gattle 2 W. H. S.

Ans.-1. Seeing that the trouble has been in your flock for so long a time it would likely be more profitable to kill off all the hens after the laying season, as you suggest. You would searcely stamp it out by killing those that show clinical symptoms. Dissect one of the killed birds, and he sure that the disease is tuberculosis; if so, the liver will show a number of taised white spots or tubercles, and it will be enlarged. When convinced the disease is tuberculosis, kill off all the hirds, thoroughly disinfect the rid of the disease entirely, but he very careful with your disinfecting to do it

eattle tested by a veterinarian competent to do the work. He will do the injecting, and give instructions as to taking the temperature of the cattle.



SHORTHORNS and CLYDESDALES we have a nice bunch of bull Sept., and are offering females of all ages; have a choice lot of heifers bred to Clamsman =87809 = One stallion three years old, a big, good quality horse, and some choice fillies, all from imported stock. A. B. & T. W. Douglas, Long-Distance Phone Strathroy, Ontario

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Planet Jr. Harrow:WheelHoe

Planet Jr. tools save time, lighten labor, and get bigger, better crops at less cost. Designed by a practical farmer and manufacturer with over 40 years' experience. Last a lifetime. Fully

guaranteed. Planet Jr. 12-Tooth Harrow

Stronger, steadier in action, and cultivates more thoroughly than any other har-row made. Non-clogging steel wheel. Invaluable to the marketrow made. Non-c wheel. Invaluable to trucker, tobacco or small-fruit grower.

No. 16 Planet Jr. Single Wheel Hoe, Culti-vator, Rake and Plow

卫民主法 The highest type of Single Wheel Hoe made. Light but strong, and can be used by man, woman, or boy. Will do all the culti-ration in your garden in the easiest, quickest and best way. Indestructible steel frame. and best way 72-page Catalog (168 illustrations) free Describes 55 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard- and Beet-Cultivators. Write postal for it.

S L ALLEN & CO Box 1108F Phila Pa Write for the name of our nearest agency



THE FARMER'S ADVOCATE.

Ouestions and Answers Miscellaneous.

Not Fit for Human Food.

I would like you to tell me, if possible, whether the meat of turkeys affected with swelled head is unfit for human use if they are killed while affected with the SUBSCRIBER. disease ?

Ans .- Turkeys affected with blackhead should be killed and burned; they are untit for human consumption.

Capacity of Silo-Packing.

1. How many tons of corn will a round silo hold, 16 feet in diameter by 25 feet high ?

2. Does a blower, when used to fill a silo, help to pack the corn? II. C. Ans.-1. Well packed, between ninety

and one hundred tons. 2. Possibly a little. It is better to

have plenty of trampers.

Fertilizer Wheat.

1. What chemicals would I need to nix with wood ashes to make a good grain fertilizer ? The ashes are dry and not leached. 2. What portion to 100 pounds of

ashes would be required ? 3. Where could I obtain White Fife

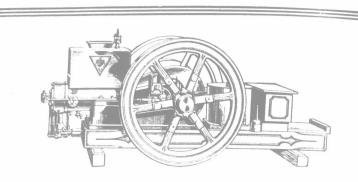
spring wheat for seed ? J. R. M. Ans.-1. Possibly a little nitrate of

oda. Wood ashes contain enough phos phoric acid, potash and lime, if applied in a good dressing.

2. Give the ordinary dressing of 80 pounds per acre.

3. Look up our advertising columns.

Sale of Farm.



Alpha Engine Facts

Alpha Engines are reliable. Use all fuels. Are easy to start. Develop full power. Are free from vibration. Have best pulley arrangement. Have simple, reliable ignition. Are thoroughly standardized and parts are interchangeable. Strictly modern in design. Are high-class in appearance. Will fit your needs for size and equipment. Make best showing when directly compared with other engines. Are sold and backed by a Company that has a world-wide reputation for selling only high-quality machines and equipment.

An ideal engine for farm use

Eleven sizes, 2 to 28 horse-power. Each furnished in stationary, semi-portable, or portable style, and with either hopper or tank cooled cylinder.

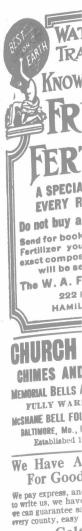
Every farmer needs an "Alpha." Send for catalogue.

DE LAVAL DAIRY SUPPLY CO., Ltd.



FEBRUARY 18

FOUNDED 1866



Gal GALT,

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We have again rood quality yours. your w

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llerd bull, Lakev 14415. Sire, Cou G. Sire, Pietertje Dam, Queen Ink 1 day, 24,278.9 and bull calves t

> THOS. R. I, Enterprise STOP! LOOK ! L

Buy the best Grades in the co milking up to 60 Yorkshire White Seed Potatoes: Lincoln, Davies to the acre in 191 O.A.C. Barred

Hervey Smith, High Point.

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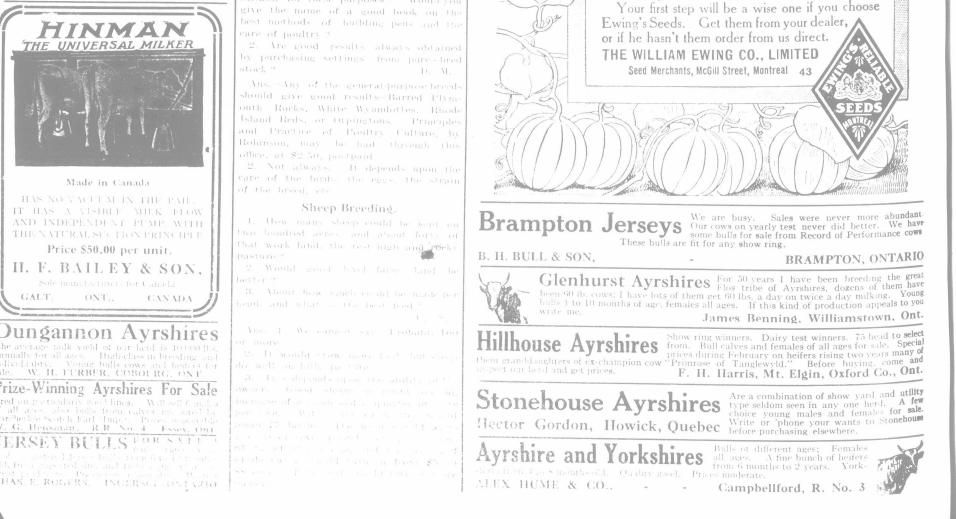
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otters ready for uhlde from R.C. of Duchess Way pion 2-year-old milk, 846 lbs. b breeding. Writ Walburn River Ridgedale Hols Also one bull ca Segis Pontiac Du dam. A very c price. R. W. V Perry, Ont. D (. P. R.

Do you know that in the world that each sired 30-1b. with records great feared and deve want the blood power of your he write: Taviste

Great Yearlin

JAMES A. CAS

The Ma

out of the cow A record of 106 lbs 2,538,2 lbs, in 36 7 days, 122,08 ll streaked fourth in site of this bull Ormsby 4884, a and Sir Admiral

WATCH FOR THE

TRADE MARK

KNOW WHAT YOU GET

A SPECIAL FORMULA FOR

EVERY REQUIREMENT.

Do not buy a "A Pig in a Poke."

Send for booklet showing just what

Send for pookiet snowing just what Fertilizer you should use and the exact composition of it. Your copy will be sent for a post card.

The W. A. FREEMAN CO., Ltd.

222 HUNTER ST. E.

HAMILTON, ONTARIO.

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THE FARMER'S ADVOCATE.

Ouestions and Answers. Miscellaneous.

Mixed Grain. In sowing mixed grain, is it necessary

to mix the grain afresh every year or not? AN OLD SUBSCRUBER. Ans.-Yes

Seed and Seeding and Farm Power.

1. Through the columns of your paper I find that farmers should be careful in the selection of seed grain, and as I am just a beginner in farming. I would appreciate your opinion as to which of the following you would advise me to sow, viz., oats, spring rye (if there is such). peas, barley, flax and corn for grain; also inform me as to where I can get the best seed.

2. What do you consider the best kind of early and late potatoes?

3. What is the arrangement for cutting feed by power that will give satisfaction ? W. P. B. Ans .- If your land is good, avoid

spring rye. Sow some oats, barley and corn, and possibly a little flax. However, the latter is not a very important crop in this section in ordinary years. Get seed from some of the growers or seedsmen advertising in these columns.

2. Extra Early Eureka is good for early, and Davies' Warrior, Rural New Yorker, or Carman No. 3, good late. There are many other good varieties. 3. You might use a horse - power and

a tread-mill, a gasoline engine, or electricity. Possibly the engine would be best under farm conditions.

Lawn Grass -Filler.

1. I plowed up lawn and would like you to publish what kind of grass 1 should sow in it, and whether a nurse crop is necessary, and all about how 1 should handle it to have a nice, green lawn?

2. Could you give a recipe for a filling to put on a hard ash ceiling before oiling, and if the same would do for soft 11. J. M. wood ?

Ans .- There is no better grass for your lawn than Kentucky blue grass. It is very hardy, spreads rapidly, and is a fine grass, and will stand cutting in dry weather. Add to this some white clover. This will help keep down weeds, and will make a fine lawn. Sow it very thickly. There is very little danger of getting grass too thick. Have the lawn worked up well, and apply a heavy dressing of very fine, well-rotted barnyard manure. Apply the seed and roll it down level and smooth. Be careful to keep off the land until the grass gets a good start. A nurse crop is not neces-

11----

DISPERSION SALE OF HOLSTEINS Thursday, Feb. 25th, 1915

On the above date I will sell unreservedly my entire herd of On the above date 1 will sell unreservedly my entire herd of 34 Holsteins. 17 of them young cows in milk. 5 yearling bulls. Also my stock bull, Lord De Kol De Boer. The records of his dam and sire's dam average 26.56 lbs., and their B.F. Test over 4%. He is a brother to Boutsje Posch De Boër; record at two years, 23.03 lbs., B.F. Test 4%. All the young things are sired by him and the cows in calf to him; the balance of the offering are heifers, principally yearlings. Practically all those in milk have official backing on both sides and their own R.O.M. records range from 13.38 to 15.03 for two-year-olds, and 14.77 to 16.61 for three-year-olds. The sale will be two-year-olds, and 14.77 to 16.61 for three-year-olds. The sale will be held at my farm, 3 miles west of Straffordville Station, C.P.R., where conveyances will meet the noon train from Woodstock, Ingersoll and Tillsonburg.

Terms: Cash, or 7 Months on Bankable Paper With 6%. Moore & Dean, Springfield, Auctioneers.

For Catalogue, Write:

N. H. McCONKEY STRAFFORDVILLE, R.R. No. 1

35 Registered Holsteins **By Auction** HEAD HEAD An unreserved dispersion of Holsteins, at "The Firs " Wednesday, March 10, 1915 at 10 o'clock sharp.

In this sale is the result of twelve years of careful breeding and In this sale is the result of twelve years of careful breeding and selection. They are the low down, straight backed type, so much in demand by the best breeders of Canada. Nearly all are young, being daughters of such bulls as Cornelia's Posch, too well known to need any comment as a bull of high producing stock. Others are from a son of Sir Admiral Ormsby (a bull well known in Holstein circles); his dam Francis Bonerges Ormsby gave in 7 days R.O.M. milk 605 lbs., butter 29.10. Sister to Lenny Bonerges Ormsby milk 530 lbs. butter 33%. Sister to Jenny Bonerges Ormsby, milk 530 lbs., butter 33%.

The present stock bull Butter Baron Posch A, has for sire Butter The present stock bull butter baron rosch A, has for site butter Baron, dam 33.17 lbs. butter, site's dam 27 lbs. butter, average 30 lbs., and for grand dam on mother's side Tempest Clothilde Mercedes, R.O.P., in 12 months milk 18,447 lbs., butter 750 lbs. This young bull is a fine straight fellow, a worthy representative of his breeding. The stock is in sufficient the batting for the stock is in calf to the last two bulls.

On day of sale trains will be met from the south arriving at Burgessville 8 o'clock a.m. and from the North leaving Woodstock II a.m., due Burgessville 11.20 a.m. Lunch at noon.

Come and inspect the stock. Write for catalogue. Terms: Cash or seven months credit at seven per cent. per annum.

F. E. PETTIT, - - Burgessville, Ont. Auctioneers: Wm. Pullin, Woodstock; E. R. Almas, Norwich. ير حصب ١١ ١١ حصب ١١

SUMMER HILL FARM

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We Have Advanced Our Price For Good Quality Cream

We pay express, and supply cans. It will pay you to write us, we have had ten years experience and we can guarantee satisfaction. A man wanted in overy county, easy money.

Galt Creamery ONTARIO -GALT,

WANTED

We have again advanced our prices for good quality cream. We could use yours. It will be worth

your while to write us. foronto Creamery Company, Limited

Toronto, Ontario Enterprise Holsteins

Herd bull, Lakeview King Inka De Kol 2nd, H415, Sire, Count Hengerveld Favne De Kol, G. Sire, Pietertje Hengerveld Count De Kol, Dam, Queen Inka De Kol, over 109 lbs, milk in 1 day, 24,278.9 lbs, in 1 year. He is for sale and bull calves up to 11 months, and also heifers. Prices right.

THOS. WILSON & SON R. I, Enterprise, Ontario, Addington County

STOP!LOOK!LISTEN!-Milk River Farm Says: Buy the best 3 Holstein Cows, 2 Shorthorn STOPPLOOK LISTENENEMIK ROVEP Failus Rover Buy the best 3 Holstein Cows, 2 Shorthoin Grades in the county of Ontario, at low prices: milking up to 60 lbs, a day. Also 3 Pure Bred Vorkshire White Sows 8 months old, bacon type. Seed Potatoes: Empire State, Comet, Delaware, Lincoln, Davies Warrior, yielding up to 160 bags to the acre in 1914. O.A.C. Barred Rock Eggs for hatching, \$1.50 per setting. Write for prices and snap shots.

per setting. Write for prices and snap shots Ilervey Smith, R.R. No. 2, Port Perry, Ont High Point, G.T.R. Myrtle, C.P.R.

Holstein-Friesian Association of Canada

Application for registry, transfer and membership, as well as requests for blank forms and all information regarding the farmer's most profitable cow, should be sent to the Secretary of the Association.

W. A. CLEMONS, St. George, Ontario

Maple Grove Holsteins Do you know that Tidy Abbekirk is the only cow in the world that produced three sons who have such sired 30-lb, butter cows, and two daughters with records greater than her own? She was bred, pared and developed at Maple Grove. Do you want the blood to strengthen the transmitting power of your herd, at live and let live prices, then write: H. BOLLERT Tavistock, Ont., R.R. No. 1

Great Yearling Holstein, Bull For Sale out of the cow Victoria Burke with the wonderful boord of 106 lbs, mills in 1 day, 686.6 lbs, in 7 days, 238.2 lbs, in 30 days, and 30.82 lbs, of butter in 2,538,2 lbs. in 30 day. 2,538,2 lbs. in 30 day. 7 days, 122,08 lbs. id tanked fourth in 1912 site of this bull is site Ormsby 4884, a son and Sir Admiral Orms This con The better in 30 days. This ow better in 30 days. This ow Records, 30 day class. The of Ly Francy 3rd's Admiral of Francy 3rd, butter 29,16 sly. Come and see or write. JAMES A. CASKEY MADOC. ONT.

The Maples Holstein Herd

atters ready for server sense of Prince Aaggie Mech-ulde from R.O.P. as it R.O.M. sisters and dam of Duchess Wayne Co-amity 2nd, Canadian cham-pion 2-year-old for batter in R. O. P. 16,714 lbs, milk, 846 lbs, butter, Also choice females of like breeding. Write Walburn Rivers, R. R. No. 5, Ingersoll, Ont.

Ridgedale Holsteites - 2 bulls ready for service. Also one bull cal served by our great bull, "King Segis Pontiac Duplicate" and from a high-producing dam. A very choice herd header at a reasonable price. • R. W. Walker & Sons, R. R. No. 4. Port Perry, Ont. Man is ster, G. T. R. and Myrtle C. P. R. Bell Laephone.

2. It would be better and cheaper to buy a prepared filler at your local hardware store

Pencil Marks Sulphur Meals.

1. What will remove pencil marks off wall paper ?

2. What is the value of sulphur for stock, milch cows, hogs, sheep and hens? What quantities to feed, and how often ?

3. What is the difference between flaxseed meal, linseed meal, cotton-seed meal, and hemp-seed meal? Have seen them all mentioned in "The Farmer's Advocate," and would like to know whether

they all are made from flax seed ? I am a reader of "The Farmer's Advocate," and think it is worth twice the INQUIRER. money.

Ans.-1. This is difficult to accomplish without injuring or soiling the paper. Λ bread-rubber used by artists might help. 2. For hens, sulphur is sometimes fed to prevent feather-pulling. Some stockmen believe that sulphur is beneficial to stock, although very little of it is recommended by veterinarians. If fed, mix with salt in proportion of one of sulphur to four of salt.

3. Flax-seed meal is simply ground flax seed. Linseed meal is the ground linseed cake made from flax seed in the process of taking out the oil; it is flax-seed meal minus most of its oil. Cotton-seed meal is an entirely different substance, being the meal made from the cake which results from the pressure used in removing the oil from cotton seed. We do not remember using the term hemp-seed meal. Where used, it likely erroneously refers to some form of meal from flax seed.

Holstein Cattle and Yorkshire Hogs We offer for sale, a dozen bulls, some ready for service, from high official record dams. If you are wanting a bull, better write us and let us tell you how good they are. Can also spare a few good heifers. Yorkshire hogs all ages. D. C. FLATT & SON ONTARIO R. R. No. 2 'Phone 715 **IMPERIAL HOLSTEINS** We are offering some good show bulls from Record ans, with records up to 21 lbs. butter in 7 days. sired by Fairmont Johan Spofferd Calamity. Official 7-day records of his dam, sire's dam, and two of his sisters, average 301/2 lbs. butter Dams of these bulls are close blood to Veldessa Scott 2nd, the first of the breed to produce 41.87 lbs. of butter in 7 days, and the only cow of the breed to make 21. 7-day records averaging 39.68. Extended pedigree furnished. W. H. SIMMONS, NEW DURHAM P. O., ONT. HAMILTON VILLA VIEW HIGH-TESTING HOLSTEINS Herd headed by King Segis Alcartra Calamity. 10 dams 2 to 4 years old average 393 per cent. fat The first 8 heifers to freshen have average records of 16.52 lbs. of butter for 7 days. Bulls from the above dams for sale; prices \$50 to \$100. Write us, or, better, come to see them. Arbogast Bros., Sebringville P.O., Ont. WILLOWBANKS HOLSTEINS Herd headed by King Korndyke Inka De Kol (Imp.) No. 18545 C.H.F.H.B., 115016 A.H.F.H.B., who has more 30-lb. sisters than any other bull, excepting other sons of Pontiac Korndyke. Stock for ealer C. V. ROBBINS, R.R. No. 3, Wellandport. Fenwick Sta. Bell' Phone, Wellandport, R.R. 6. Ourvilla Holstein Herd —The first herd in Canada to develop a 31 lb. cow. The only herd in Canada to develop 27 two-year-olds averaging 16.20 lbs. of butter in 7 days. We have also develop 47 three-year-olds averaging 23.23 lbs. in 7 days. If you want a bull backed by Ourvilla reputation and records, sired by a 31.76 lb. bull, write us, LAIDLIAW BROS - AYLMER, ONTARIO LAIDLAW BROS., Bayside Holsteins Stock bull, Pontiac Hermes, a brother to the dam of duced Lula Keyes, R.O.P., 19258 fbs. milk and 678 of butter as a sr. 2-year-old and May Echo, 31.60 fbs., R.O.M. If you want a herd header with this kind of breeding write me. E. B. MALLORY, Belleville - Box 66, R.F.D. Sunny Hill Holsteins to the \$26,000 bull, sires dam 32.17 lbs. sold for \$4,100. HESPELER, ONT. WM. A. RIFE, - -





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Woodstock, Ontario.

THE FARMER'S ADVOCATE.

Ouestions and Answers. Miscellaneous. pro

Corn Marker.

Can you tell me a good way to make a corn marker, or could any of your readers help me in the matter? C.B. Ans .- One of the best markers we have een was described in our issue of June 18, 1914. This was attached to a seed drill, which had behind it a single-board riding-platform attachment. To this was fastened a 2 x 4 scantling, the ends projecting beyond the wheels a sufficient distance to allow of fastening markers to these ends to make marks for the wheel the next time across the field. The end of the scantlings were rounded, and the marker attachment was simply a piece of solid material about 2 x 6, with a hole bored through one end, and large enough to slip over the rounded end referred to. This may be fastened on with a small key or plug, and needs to be just long enough to reach the ground on a sufficient slant to drag easily. These are attached to either end of the 2 x 4 The length of the long scantling is regulated by the width of the drill used, and the distance apart of the rows. Where riding platform is not attached, it would not be a very difficult task to fasten the scantlings without if. This is a very good marker indeed where corn is to be sown in drills, and it could even be used with a few modifications for hill planting. Corn-growers who are operating on a fairly large scale, like the checkrow planter very well. We have seen also very good markers made by using 2 x 4 scantlings as runners, and fastening these together by planks, keeping them at the required distance apart for the rows, bolting a good solid plank on the front, to which the whiffletrees are attached, and dragging these back and forth across the field. There are many simple methods, but the drill method is the best we have seen outside of the check-row planter system.

Crops and Weeds.

1. Are sugar beets a profitable crop to grow providing farmer does hoeing himself ?

2. Which gives the better satisfaction for growing rape, sowing it in drills or broadcast?

3. If sowed in drills, how would you sow them, sow them like turnips, and how thick ?

4. Would you make drills same as for

5. What kind of oats would you recommend sowing on high, rolling land, not very rich?

6. Would you recommend sowing black oats? Is there any particular variety you know ?



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8. Is sugar-cane a good feed for cows

Ans.-1. On suitable soil and conveni

3. Sow with a turnip drill, like turops, 11 lbs. per acre.

4. Yes.; or a little closer together if

tivating after carn rais, er at least oper a week with a bloud - sharef cultivator

J. A. Cerswell, R. R. 1, Beeton, Ontario Shropshires and Cotswolds imported eves. Will be pleased to back orders for JOHN MILLER, R.R. No. 2, CLAREMONT, ONT. Pickering Station, G.T.R., 7 miles.

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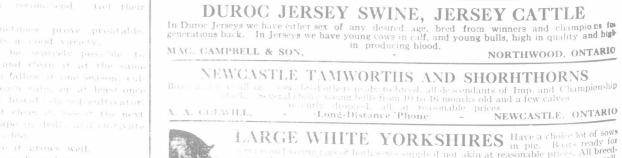
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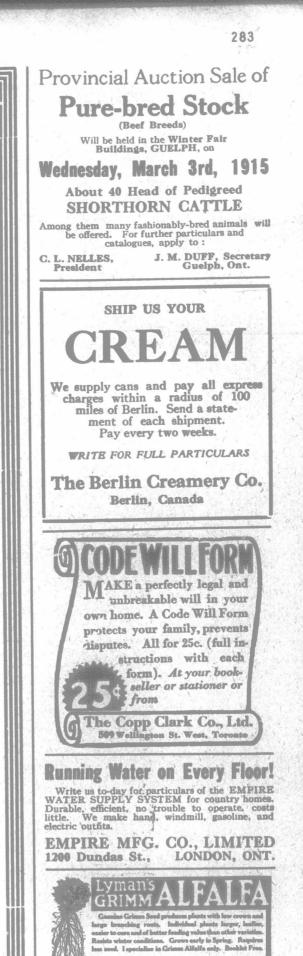


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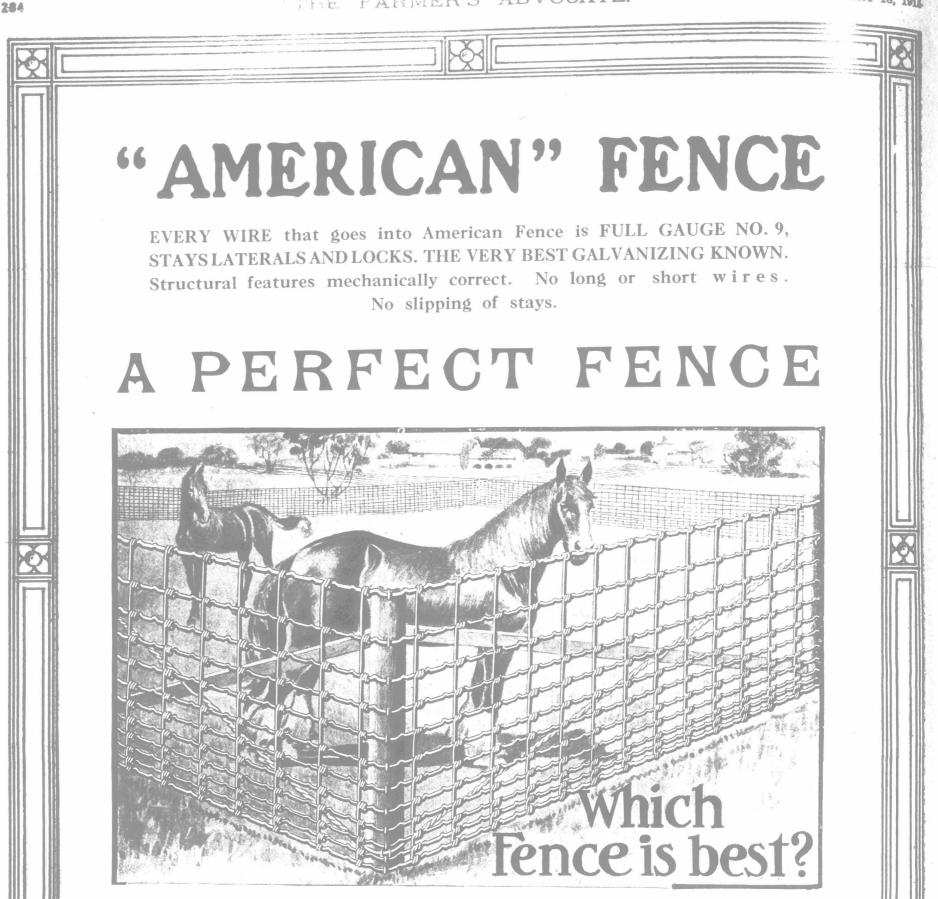
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