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August, '15

The Canadian Thresherman and Farmer

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# FALL PLOWING NEXT IN LINE

A Carefully Prepared Seed Bed Means Bigger and Better Crops—Bigger Profits

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The Weather is never too Hot---The Ground never too hard for this Sturdy Horse



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Sun or Moon it makes no difference -at your service night and day

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Right after you have finished your threshing, get at your fall plowing. No other one operation on the farm is more important than deep, early fall plowing. It's the laying of the very foundation of your next year's crop. A perfect seed bed goes a long way towards producing bumper crops. To prepare this seed bed you must have power and lots of it.

Plowing with horses is a slow, costly operation, and then the work is not done properly. Now is the time to dispose of these costly work animals at war-time prices and before winter sets in. The sum realized from the sale of these horses and the saving in feed would about cover the first cost of an

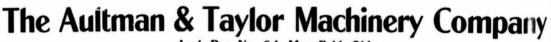
# AULTMAN-TAYLOR GAS TRACTOR

(The Tractor that never fails to satisfy)

At this time of the year the ground is hard and the weather hot, so that plowing with horses is an uncertain and tiresome job. Contrast this slow, costly and inefficient method with the Aultman-Taylor way. It's fine work to hitch a sturdy, reliable Aultman-Taylor Gasoline-Kerosene Tractor to your plows and go right along—plow as deep as you like—pay no attention to weather, hot or cold—plow day and night if you wish, nothing to hinder you. Make your fall plowing a matter of days instead of weeks—and, remember that an Aultman-Taylor Tractor not only saves you big money on your fall plowing, but it will do every power operation on the farm quicker, cheaper and better than it is possible to do it with any other available power. For belt work, such as threshing, silo filling, saw milling, etc., better power cannot be had at any cost. For road work the Aultman-Taylor Tractor is the acknowledged best everywhere. Plowing, discing, harrowing, seeding, harvesting—any job where power is required, you'll find the Aultman-Taylor Tractor a money maker and a time and labor saver.

The time to get on the inside on this tractor farming is right now—the time to buy a tractor is right now. We want you to learn the truth about the Aultman-Taylor. The truth is sure to boost this tractor of tractors. Go see one work or let us give you names of owners. Get in communication with us at once. A post card will bring you the desired information. Write to-day.





Lock Box No. 64, Mansfield, Ohio BRANCHES: Minneapolis, Minn.; Great Falls, Mont.; Regina, Sask.; Calgary, Alta., Canada.

You saw this advertisement in this magazine. Don't forget to say so when writing.

August, '15

The Canadian Thresherman and Farmer-

Page 3

STRONGEST

**GUARANTEE** 

# THRESH FASTER-CLEANER-CHEAPER BY USING A MAYTAG-RUTH SELF-FEEDER

No slugging of cylinder—no breaking of teeth—no delays for this, that or the other thing when your separator is equipped with a Maytag-Ruth Self-Feeder. Your machine will hum a steady tune of bigger profits from the very day you attach a Maytag-Ruth.

No sheaves can slip through without the bands being cut—no grain lost by sheaves being carelessly fed sideways. The Maytag-Ruth is a **self** feeder in every sense of the word. It takes care of **every** detail of feeding. It's the one and only feeder that is perfectly regulated and so strongly built that it can't shake to pieces. Good for a life-time of use and a money-maker every day it works. Saves time—saves labor—saves grain.

The Maytag-Ruth has been on the market for twenty years and it's still the leader. Other self feeders have been devised but the original Ruth feeder made by Maytag is still the favorite with men who know the threshing business.

Will you let us tell you fully and frankly what the Maytag-Ruth will do for you? Will you let us submit the evidence of hundreds of experienced threshermen who say the Maytag-Ruth is the **best investment** any custom thresher can make?

LONGEST LIFE

## <u>THE MAYTAG-RUTH</u> SIMPLY CAN'T SLUG A CYLINDER OR BREAK A TOOTH

Here is the guarantee we give you—a guarantee so strong, so plain, so complete that we wouldn't dare to make it if there was the least question about the quality or efficiency of the Maytag-Ruth. Could any guarantee be stronger than this?

"WE GUARANTEE every Maytag-Ruth Feeder to feed any make or size of separator to its full capacity, with any kind of grain in any condition whatsoever, bound, loose, straight, tangled, stack burned, wet or dry, piled on the carrier any way you please, without slugging the separator cylinder or loosening a spike, and do a faster, cleaner and better job of feeding than any feeder manufactured by any other company in the world."

Don't lose time in finding out all about the Maytag-Ruth Self-Feeder. Write to-day for our big illustrated eircular which gives full details—shows pictures and tells about each part of the Maytag-Ruth separately—shows a diagram of how the trip-lever is operated to stop and start the raddle, the mechanism working in connection with the feeder cylinder and not the threshing cylinder. The Feeder controls the entire operation of feeding, and the separator cylinder does not have to be checked to stop the feeding. The Pickering Governor on the Maytag-Ruth is the most sensitive of any governor on the market. Just as quick as the feeder cylinder falls below the proper speed the Governor operates the trip lever, which stops the raddle until the mass of grain is disposed of by the feeder cylinder and retarder.

We handle everything that a Thresher uses except Separators and Traction Engines. Send for the Supply Catalogue. On the front cover it says: WE NEVER HAVE AND NEVER WILL HANDLE ANY BUT THE BEST GRADE OF GOODS. Our reputation in this respect is established. Another hobby with us is PROMPT SHIPMENT.

The new law in Saskatchewan which is called THE FARM IMPLEMENT ACT, provides among other things, that a Company selling machinery in that Province, must carry a stock of repairs in the Province. We are one of the very few who did not need a LAW to compel us to do what was right. For several years we have had a complete stock of repairs with MR. H. A. KNIGHT, at REGINA, and also a stock with THE INTERNATIONAL HARVESTER COMPANY, at SASKATOON. If these towns are nearer to you than Winnipeg, get them there. If you live in ALBERTA, send to THE W. S. COOPER CO., CALGARY, as they have a stock also.

DO NOT PUT OFF WRITING FOR RUTH FEEDER INFORMATION. WE ARE BUSY NOW AS A TOAD UNDER A HARROW and getting more so every day.



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THE evolution of the human brain is a process in natural law which seems to have en invested with an eternity of

It is in keeping with every evince of the Unchanging Love at this most wonderful of all s offspring should have been iranchised with possibilities of sight that, humanly speaking, e without limit.

Fragmentary remains of "lost" that flourisl ed thousands of ears ago speak to us in the most aclusive terms of the fact that me is no dissolvent of human

nius. Accordg to the Old cord, every hing in the arden of good hings was ely permitto man. tree only urely a modst reserva n) was withbut the pish curiosof man must at the root that tree as and his vilish ingenity no less god-like enwments have een ceasesly produce ever since.

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The purpose of this article is not encourage any disposition to sit wn in drivelling, unproductive miration of past achievement, t in the light of our wonderful ainments, to be up and doing; strike into new fields in that at unexplored territory which wider and deeper than anything at has yet been investigated.

As we write the great upheaval Central Europe is screaming m the depths of its mad blood st for the service of man's ain to the production of anyng and everything that will cilitate the blasting of human e. On all sides, in every new rganization for victory," the ist line is delegated to the sciensts, the presiding genii of the

#### 23 22 23 A "DEPARTMENT OF 23 INVENTIONS" FOR CANADA

#### By the Editor

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expected to concentrate the last the soul, sometimes of the very capacity of their grey matter to what Sir Ian Hamilton calls "inventions of the devil."

2

Now we will not stay to con-

laboratory and workshop who are been the product of the sweat of life's blood of the penniless toiler. We find no partiality in the dis-"The ranks" tribution of talents. come in for a no less generous



The binder makes a holiday of harvest compared to all it has superseded.

template this unthinkable perversion of God's greatest gift to man any longer than to ask the question: If nations are willing to spend what they are now lavishing upon the hellish business of devising new methods for the wholesale and quick destruction of human life, why in the name of that great God of Love will they in peaceful times grudge a bare fraction of that vast expenditure to encourage and facilitate inventions which are designed to help and to bless mankind?

The path of the inventor in times of peace has invariably been a thorny one. Monied men have done some remarkable things in the course of their leisured lives, but the really great things have

outpouring than "rank," which is but "the guinea stamp" and cannot buy an endowment of brains any more than its money can command a monopoly of health.

It raises a storm of indignation in the soul of decency to-day as it recalls how kings and governments and worse than all-"the great plain people"-treated those silent heroes of our industrial progress who knew nothing but penury and persecution till death befriended them.

It was bad enough in those heathenish times when the inventor with his great idea struggling for birth had to contend with a poverty of means, but when to this there was added the persecution of the mob on the one hand

and the rascality and envenomed spite of competitors on the other, it is astonishing that so many of our labor-saving mechanical wonders ever materialized.

These records are part of our national biographies. Their story in some respects is not likely to be repeated in the lives of succeeding and more humanized generations. Men have now and will continue to hold a certain guarantee against infuriated mobs of workers who imagine they were being robbed of the only means of earning their daily bread by some "new fangled machine," but we

are still a long way from the point at which the penniless genius can depend on help rather than hindrance in his efforts to materialize.

It has been suggested that one of the greatest "planks" that could be inserted into a national policy would be the esta blishment of a "Department of Inventions." Money has been squandered to the ex-

tent of millions by party politicians upon "public works," the utility of which never will be apparent and never will be admitted except by the coterie of grafters who have benefited by them. Imposing and costly structures furnished, decorated and equipped out of all proportion to the fitness of things have been reared, and if there ever was a certainty in the interpretation of motives, it is that the supreme purpose in all the extravagance was that of political advertising.

The husks, so to speak, of these splendid institutions, have been garnished and decorated with all the trappings of a travelling waxwork, while the kernel has been

## The Canadian Thresherman and Farmer-

the subject of continued and studied neglect. We know one institution of the kind in Western Canada where politicians have spent hundreds of thousands on



The back-breaking cradle used for 40 centuries. useless gew-gaws. They have squandered the people's money to this end with all the levity of constitutional spendthrifts, but when it comes to such an inconspicuous item as the salary that is due to a first rate educationalist or some detail of the real spade work of education in the community, they are the biggest misers on earth.

Till this rottenness has been got rid of there is no hope for the soul of education, still less for the idea of a "Department of Inventions. And yet these are the main things. What a blessing it has been for the people that the educationalists are not politicians. It is necessary that a man must be fond of his job before he can be successful with it, if it is only that of a second lieutenant in a shoe-shine parlor. There was a time when 'Bobbie" had no choice. Because his father was the hereditary blacksmith of the parish, Bobbie. in spite of all protest, must keep the line unbroken. But this insane notion no longer prevails, and a wisdom born of experience has taken its place. In these days a wise father finds out the disposition of his boy and the drift of his mind, but he never attempts to drive him towards an occupation that he hates with all the cordiality of a boy's expansive soul.

The Lord "calls" a man no less to the plough than to the pulpit. There are not many "Weary Willies" in our workshops to-day. Every man seems to be happy at his job because he is following the bent of his disposition—he took up the sledge-hammer or the jack-plane because he felt that there was nothing on earth in the way of a life's employment that he could like half so much as blacksmithing or carpentry, as the case may be.

Well, now ; if men chose in such whole-hearted fashion and are so careful to observe the fitness of things in the manual arts, what shall we say of the "divine fervor" that seizes the educationalist and the born inventor, whose brain is his whole equipment? The fact is. no one who has not experienced the thrill that seizes the soul thirsting for knowledge and the luxury of imparting it has the means to comprehend the all-consuming enthusiasm of these menthese silent, subterranean workers who know not the value of advertising.

And yet always these have been the men who have saved the day when all else wallowed in corrup-

never been "in the market." Had they been as susceptible to the persuasive power of the dollar as they are devoted to the real spirit of their vocation, Manitoba to-day would be one of the most benighted and illiterate corners of civilization. But the men of brains usually have hearts that correspond with their brains. They seek and invariably find their reward in far else than magnificent equipages and the plaudits of the crowd. They are sapremely happy men. You will rarely find an uncongenial soul among men who are plowing in the fields of knowledge. Every new discovery brings them its peculiar joy that is not complete until they have unloaded it upon their fellows.

We could fill this magazine ten



THE OLD WAY: An army of men needing unlimited time.

tion and rushed headlong to disaster. Unthinking, ungrateful fools that we are, while we have been yelling our plaudits to the tinsel and flim-flam of the signboard, these men—the real body and soul of the institution—are rarely invited into the public view except for hostile criticism. A

contractor gets anything he cares to ask for—even to millions—in "extras" for mere window-dressing, but let someone suggest an extra thousand dollars to purchase or encourage the best brains in the market, and he is instantly turned into a pillar of ice by the mere gaze of the "board" of political bosses sitting around him.

It is well for the country that the brains of the best of these educationalists and inventors have times over with historic instances of these men—most remarkable to the unthinking mob—who have scored a success in life complete and satisfying beyond all peradventure and have died no "richer" than they were born. Yet it is cheering to note how long some of them were permitted to enjoy their happiness on earth and how young they remained long after time had whitened their hair and traced its lines upon foreheads that never knew the blush of dishoner.

#### Sir William Crooks

Think of Sir William Crooks, still with us at 85, a veritable "boy" in the exhuberance of his soul and toiling night and day in his laboratory and workroom on behalf of his country in its hour

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of need. Mr. Harold Beg of this wonderful man:

"To be alive at 85 is a menti in itself, but to be very vigono and intellectually alive as this and by the same token to be using for the nation in it have trial with every faculty alert, wishing that there was more a to do, this is a thing so fine, heartening that we may all 'Hats off!' to Sir William (raand in this salutation feel selves braced up to do still m in helping our country and cause of the Allies.

"It would be dreadful if had to record that this veteran science was a noisy optimis bustling worker, a patriet he ing of his age, and cackling m contempt of the enemy Self liam is the reverse of this. He always been one of the most m est as he has certainly been one the most courageous inquirer our day; and the only effect of noticeable in his mind is a deep ing of this modesty, which sh itself in a more deliberate careful manner of expressing opinion and a certain suavin the soul making for gracions and consideration.

#### His Work-Room

"He told me that he is considin himself of no change of face during the last thirty or *la* years. He can work as hard, can see as well, he can hear well, he can bear fatigue as u and, what is far more to the peihe is just as interested in life m as he was then. Indeed, he is clined to doubt whether he aware in himself of any physiinhibition for more years th this. 'I feel,' he said, 'very m as I felt at thirty-five years age,'"

The life history of Sir Will Crooks incarnates the spirit of real student, and one can w easily read into it the no less markable story of the late L Kelvin. These splendidly dowed men were the least scious of all around them t anything was "coming to them" the nature of applause or put gratitude. They had one const ing thought in common, the covery and elucidation of facts the operations of nature and what way or in how many wa these facts could be enlisted to service of men. Men of this t

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What the farmer rightly calls the finest music of all the seasons-the click of the self-binder.

#### August, '15 st. 15

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ke Kelvin and Crooks are the most appreciative listeners to the numberst student

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truth they rejoice even more

So it is with all real education-

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inventor. It is as absurd to

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instling business man for the rpose of stating his case. The can usiness man" of to-day hasn't moment of leisure. The quicklate 1 unch counter is his only resting tidly ace and his whole atmosphere that of the bustling barber hem th his "Next! next!! next!!!" inthermore, he has made for mself some remarkable "rules' in the subject of men who may the mmand his attention. and

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Unless the visitor has an imsing address and can talk in rthodox business terms the inerview is a remarkably short ne. We know of more than one se (not to speak of the scores

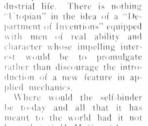
## The Canadian Thresherman and Farmer

of historic examples in our national biography, in which a man with a splendid conception of a new combination in mechanics has called upon the head of a big and reputedly enterprising manufacturing firm to invite co-operation in making and placing the device in the hands of the people. He looked a common hay-seed and the ass in the big office chair took him at his face value, with the result that the man came away cast down but by no means dismayed.

Some three years ago a case of this kind occurred in Winnipeg. with the result that the inventor took the advice of a friend in St. Boniface and his little contrivance to a big auto-engineering firm in France. There he met with the civility and ordinary politeness he was entitled to. but which was denied him in

The enterprise of competitive private firms does not in practice meet the case of a vast proportion of the fruits of inventive genius. It is necessary that these men and their ideas should be spared the oblivion that dogs the footsteps of so much in our in-dustrial life. There is nothing "Utopian" in the idea of a "De-

Where would the self-binder been that C. H. McCormick was, in addition to his remarkable inventive skill, a man of indomitable push and bull-dog tenacity? (Nor must we forget that he had



The Virginia workshop where the first Cormick reaper was made in 1831 consider any contraption that was fathered by a parson?

> Another remarkable and quite recent contribution to agriculture in North America is the sheaf loader, a combination that bids fair to do as much for the in-

gathering of the crop as the self-binder has done for the cutting of the grain and binding it into sheaves. Any illustration of this machine cannot express the wonderful work it does in the field, if only in saving days of time, not one hour in any of which can be spared in these days of increasing crop areas and scarcity of labor.

And yet it was only by the merest chance that a couple of sensible business men came in touch with the modest inventor a year or two ago, felt the throbbing spirit of the great idea and decided to stake their all on putting it on the market. Prejudice has done its

worst, but the loader, like the reaper, has had the luck to ride out every tempest of criticism and to come into its own without one mouthful of aid from "the government."





was struck and the inventor, as well as the manufacturer, have made between them some half-amillion dollars, while Winnipeg lost the cream of a big industry.

No, the invertor usually needs help. He has been all his life a whole man to one thing-his machine. He is invariably a modest man but he is not always a "business man." If he has some faithful, well-fixed friend, he sometimes wins out, but if he hasn't and has no skill in "company promoting," he may as well take his models to the scrap-heap or present them to a museum of abortive schemes.

capacity, which she devoted to the service of her husband and the interests of the harvester.) If the Scottish Board of Agriculture had been wise in its day, it might have secured to Scotland what subsequently has enriched America almost "beyon), the dreams of avarice," for it was a Scotch parish minister who started the idea of the reaper.

The Rev. Patrick Bell, of Carmylie, Fifeshire, brought out the first successful machine in 1826. He worked for years at the making of it when a young man on his father's farm, and the principle adopted by him-that



What would our old fathers of the flail and threshing floor say to this?

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of a series of scissors fastened

on the "knife-board" was fol-

lowed for a long time. But what

up-to-date business man of Bell's

day or our day would seriously

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## No. 18

BEEF raising will probably be form of live stock production in Western Canada, as it has been in the past. The West is primarily a grain-growing country and is likely to remain so. In choosing a kind of stock to fit in with grain growing, beef cattle have special claims to consideration. They require little or no attention during the busy summer season. They are able to make use of straw which is the main by-product in grain production, and also of wild oats or shrunken or frosted grain which may not be marketable at profitable prices. They are also specially suited to farms that are far from the railway. Two or three trips to town with bands of fat steers may market the whole season's crop, while with grain, the same value of output would require very much teaming, or with dairying, regular frequent trips must be made.

## Importance of Good Stock

The very foundation of successful beef raising is good stock. It is not necessary that they be pure bred, in fact the beginner would be wise to start out with grades. But they should be of as good beef conformation and as thrifty as possible. There must be a natural tendency to lay on beef and to put it in the places where the most valuable cuts are. There must be good feeding qualities These and good constitution. qualities make an animal that will make the best use of its feed, will use up coarse feed, will keep healthy and in good condition, and when fed heavily for fattening will make good use of the larger, richer feed and fatten up quickly without going off feed.

The bull should always be a pure-bred, of one of the recognized beef breeds. The Shorthorn, Hereford and Aberdeen Angus are the most commonly raised beef breeds and are all desirable breeds. A grade bull, even though he may be a good individual, has not the ability to transmit his qualities to his offspring that a pure-bred has. It is not sufficient, however, to simply get a pure-bred without regard to his breeding and individual quality. There are runts and

scrubs among the pure-breds as well as elsewhere, and one must be careful to get the animal right as well as the pedigree.

## Raising Beef Cattle

The business of beef production may be divided into two ends: raising and fattening. Very often the two may merge into each other, but in other cases one farmer does the raising and some one else the fattening.

The greatest principle in profitable beef raising is to keep the cost of production down. Where no milking is done, the only crop from a beef cow in a year is her calf. If any money is to be made, the cost of keeping that cow for a year must be less than the value of the calf at weaning 'ime. Now,

Heretofore, the object has been attained by pasturing the cow on unoccupied land in the summer and feeding her on hay cut from unoccupied land or sloughs in the winter. The only cost was the cutting a: I gathering of the hav. Here was cheap production indeed! And so long as this method is practical, it does not appear easy to improve on it. But the unoccupied land is being taken possession of and used, the hay sloughs are drying up and many of them can be plowed and made to grow more valuable crops. Consequently, in many districts it is no longer possible to raise cattle in the free and easy way of the past, they must be fed off arable land or not at all. The



A Fine Prospect in Beef and Brain.

the value of an ordinary grade calf when it is weaned is not very much, so that if a man is to make any money off him, his mother's feed and shelter must not cost much. A pure-bred calf that will sell for a good price for breeding purposes will justify a more expensive style of care for the mother, and puts the whole plan of operations on a different basis. but the majority of farmers will not be breeders of registered stock so that they must figure on keeping each cow for less than the value of the calf. How is this to be done? It is not to be accomplished by starvation; many have tried it and have gradually destroyed the beefing qualities of their stock. Then, if the cow is starved the calf will be stunted and the price obtained for the cow's kep reduced so that nothing is gained. Clearly, cheapness of production is not to be gained by stinting the cow's allowance of The cow must ge. plenty, feed. but that plenty must be obtained at small cost.

question then is to provide them with suitable feed without much expense. On most farms there is a piece of broken or rough land that may be used to advantage as permanent pasture. The productiveness of this pasture can usually be increased by breaking up the best spots and sowing in Brome grass. But it is not advisable to be dependent on permanent pasture alone unless the area is very large. In midsummer it gets rather bare and dry. The summer fallow can often be made to help out in the providing of pasture. In moister districts it may be sown with oats and pastured, or sown with rape in rows for pasture. These practices are only permissible where there is a good supply of moisture. In dry districts the bare fallow is essential. However, the same system can be followed in growing pasture except that it cannot be considered as a substitute for summer fallow. Pasture may also be provided by growing grasses. Rotation of crops is needed in mixed farming and the grasses used for pasture after being cut  $\phi$  may pasture after being cut  $\phi$  may pastured the whole season.

For winter feed, the grade cow must be expected to a large amount of straw. On grain farm, straw is not cor ered to have any value. quently the more straw the can use up, the more she chear the cost of her maintenance. I ever, no animal should be exp ed to live on straw alone. very bulky non-nutritions Cattle need such bulky feeds. they cannot thrive without s thing more nutritious as What this should be will dep on other circumstances. Wi oats are cheap and a long had required to deliver them t may be fed to breeding cattle often in more favorable locat for grain marketing, the feed of marketable oats to breed stock would be too expens Some of the millions of bushel wild oats grown in the W might very well be used for t purpose. Shipped with whe these wild oats bring no rever to the farmer, on the contr they are a cause of loss through reduced grade, dockage a freight. If he fanned them a he would get more for his wi and the wild oats would ma very fair feed for cattle. Shru en or frozen grain and wild bu wheat seeds can be used in t same way.

The use of corn makes possible the lessening of the cost of left raising. Used as a substitute summer fallow, corn makes such actual cost may be counted as we low. It produces a heavy croud fodder that is found to be me satisfactory for wintering stok

## Fattening

Fattening may be simply ac tinuation of the raising prod and with good pastures someti grass-fed stock is turned off very good shape. It may, on th other hand, take the form of m rapid finishing process through more liberal feeding of stronge foods. In the early days, gras finished cattle were, and in t outlying parts, they are still, th chief output, but as the count becomes more farmed and le ranching, the pasture is no long good enough or cheap enough i fattening.

ming pres their on of the ular to ere they ir own li out six m to bring er end of tion of ing calf m birth ut a yea th its tend hich type mal to tl best, depe g curcums When fatt different est he adop he best for p. Then en the anin in good ust be fore h and cone required f ten an exc imilated a cess made 1 ns. In mai to keep the d conditio tle feed as p



Batteries Each...... Buy dire

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## '15 August, '15



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The age at which cattle are fatned depends on the type of ming. Where the ranching sysm prevails, the cattle gradually their full growth and then fatn on the grass at about four ars. Next to this is the growg of the steers up to about two ars on conditions somewhat milar to those of the ranch, here they rough it and pick eir own living, then a period of out six months of heavier feed-

and is a moment of near near near near the production of baby beef where the young calf is fed heavily right from birth and is marketed at about a year, fat and heavy and which type of bringing the beef minal to the finished condition a best, depends on the surroundme curcumstances.

When fattening is undertaken, different standard of feeding ust he adopted to that which was e best for raising and mainten-Then the object was to ep the animal growing normally in good condition. Now he st be forced so as to gain in hand condition. So much food required for maintenance; to ten an excess over this must be imilated and the greater the ess made use of, the better the ns. In maintenance, the object o keep the stock in reasonably d condition at the cost of as tle feed as possible ; in fattening

ELECTRIC LANTERN FOR THE BARN USES ONE ORDINARY DRY BATTERY Without Battery Seach 30c Buy direct from The Levvy Electrical Co. Limited Winnipeg, Mapitoba

this magazine when writing advertise

## The Canadian Thresherman and Farmer

the object is to get them to make use of as much as possible. Not that the cost of feeding can be the object is to get them to make gains, a more liberal standard must be adopted, and if good gains are made a higher cost is permissible and necessary.

It is possible to fatten steers successfully and profitably on straw and grain. Repeated experiments at Brandon Experimental Farm have shown that oats and barley fed to fattening steers were marketed at much higher prices than could be obtained by selling these grains at the prevailing prices. Fattening cattle make the best use of grain if they are fed lightly at first and are gradually accustomed to digesting larger quantities. They should be started on about two to four lbs. each per day; this may be increased at the rate of one lb, more each week until the ration reaches about eight lbs. per day. It should then be increased more slowly or if the cat.'e are gaining well, it may be held at about that rate. To finish them into choice cattle, a daily ration of twelve to fifteen lbs, of grain is needed. These feeds are for steers of 1,000 to 1,200 lbs. While steer feeding is practicable with only straw and grain, better gains can be made and the cost of production lowered through the use of other feeds. Corn, being a cheaply grown feed, is a great help in fattening cattle. Especially if it is stored in a silo, the ensilage helps to keep the cattle in a thrifty, sappy condition, they are less likely to go off their feed and they make larger gains from the same feed. Succulence of some sort is a great help in feeding stock, and ensilage is the most successful form in which to feed it. Roots are another excellent form of succulent feed; they are fully as good as corn but cost more to grow.

Hay is a big improvement over straw as a feed for steers, considered from the standpoint of making gains quickly. However, the cost of hay makes the gains fully as expensive. It is probably best to use straw on account of its cheapness as much as possible, especially at first, and then use the hay for finishing off when the steers are beginning to get particular about their feed.

Alfalfa is a great feed for fattening stock, and wherever it can be grown successfully it will help to lessen the cost. It should be used to cut down the grain ration and not to take the place of straw or other hay. It is too valuable to be used as the only roughage, but, combined with straw, it makes better and cheaper gains.

## Time of Marketing

The great bulk of the cattle marketed in Western Canada are shipped in the fall. The result is (Continued on Page 14)



## Judge <sup>by</sup> Results



Phone Main 46

We Can Offer You The Unexcelled Selling Service of Experienced Men

¶ Get our bids on wheat and barley. Premiums on early shipments are very good. Barley is now a good price and will likely go lower.

**q** Let us help you make the most of your grain. Phone or wire for bids on track or to arrive.



531-535 Grain Exchange WINNIPEG, MAN.

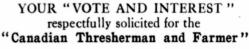
Phone Main 3570



Mammoon farmers with the harvest. Farmers are urged to send in particulars at once as to how many men they will require, when they want work to start, what price they will pay for one month's work and the name of the nearest railway fare of these soldier harvest hands will be paid by the Dominion Government.

Apply at once to the **PROVINCIAL EMPLOYMENT** BUREAU, Corner Main and Water Sts., WINNIPEG.





Page 9

The Canadian Thresherman and Farmer

August, '1:

Angu



No advertisement is allowed in our columns until we are satisfied that the advertiser is absolutely reliable and that any subscriber can sately do business with him. If any subscriber is defrauded E. H. Heath Co., Ltd., will make good the loss resulting therefrom, if the event takes place within 30 days of date advertisement speared, and complain be made to us supeared, and complain be made to us of the subscriber in writing with proofs, not later than ten days after its occurring, and provided, also, the subscriber in writing to the advertiser, stated that his advertisement was seen in "The Candian Thresherman and Farmer." Be careful when writing an advertiser to say that you saw the advertisement in "The Canadian Thresher."

recover some of that misappropriated million odds of the people's money, one of the first things they will naturally spend a substantial portion of it upon will be on the roadways of the Province. "Good Roads" has provided a lot of convenient flim-flam for many years-particularly on the eve of an election-but now there is in sight some real spade work and intelligent work. The condition of the road allowance all through the West is in some cases deplorable, and where it lends itself to adverse criticism in the more settled districts of Manitoba, the abortive experiments in improving the old trail have left things in a far worse plight than they were in before a road-grader was ever thought of. We have recently taken more than one extended trip, covering a few hundred miles by auto and are therefore not quite dependent on second hand evidence.

FIRST OF ALL, THE TIME HAS COME when it really looks as if a readjustment should be made on the space

that is squandered on our roadways. Ninety-nine feet or even sixty-six feet is an excessive and wasteful width of highly productive soil to be given up to what purpose? Practically no other than the fostering of weed crop, for rarely more than 18 feet of it is ever used for a road bed. And such road beds! As one contemporary has pointed out "thousands of miles of the best highways in England, France and Germany are only one rod wide, but if that seems too stingy for us, call it two rods and we are still throwing away two acres on each mile." Multiply these figures for the Province by its road mileage, and we have a few hundreds of thousands of acres of the best farming land in the world worse than wasted, for, as we have said, the greater portion of it that is not still under scrub is the undisputed reserve of the noxious weeds, each year producing enough seed to keep the neighboring farms perpetually supplied.

THE "PATRIOTIC ACRE" that has received so much publicity has not in every case been drawn from the farm proper but from the road allowance. This is by no means regrettable—rather the opposite, and we appreciate the common sense and industry of so many farmers as we bowled along and observed so many miles which had been rescued from the clutch of the weeds and wild flowers. Moreover, the character of the crop on these way-side bits of new cultivation far surpassed that of many of the fields on the other side of the fence. But that is something that can be gone into more leisurely than the very pressing matter of the road bed or that portion of the road allowance which is supposed to bear the traffic. Here is something

that "calls for instant redress" or that must be put in shape without any further hold up from political jobbery or the doubtful traffickings of local road-masters.

FATAL ACCIDENTS OF RECENT OCCURRENCE, involving the lives of several of our very best citizens, have stirred popular feeling to its depths. These in two specific cases we know of were due to nothing else than the rascally neglect or bungling of the parties who were responsible for the keeping of the road bed in a reasonable state of repair. Had there been abnormal weather, there might have been something to offset the blame, but for many weeks prior to these fatalities the soil was in perfect condition for roadmaking. In some municipalities the road was "a peach" and one's gratitude to the men in charge could not find adequate expression, particularly as we thought of what we had come through in the adjoining "parish." It was a perfect hell of torment from a constant fear of turning turtle or going headlong into a deep ditch or telephone pole.

POSSIBLY EXISTING LEGISLATION is quite st ficient, but unquestionably the law is not uniformly enforced On inquiry and from voluntary statements made by respon sible residents who accompanied us through some of the rocky experiences, it is perfectly evident that to a gra extent the requirements of the act are lived up to evaded according to the disposition of the roadmaster. he cares to do as little as he may the chances are that h is a man of sufficient bull-dog influence in the neighborho to guarantee him an immunity from the mild protest fearful ratepayers. Why a fellow of that stamp is not go after without calling in the testimony of his neighbours is difficult to understand, but such is life in rural Manitola In one case the roadmaster had made the employment of h relations the first consideration; result: execrable roads and next year's appropriation mortgaged.

IS THERE NO OTHER METHOD of building a country road than the almost semi-circular design so great in vogue? The convexity in the centre is something alarming at any time, but in wet weather it is a perfect death-trap. 0 the top of the road there is positively no space for two auto mobiles or farm wagons to pass and the dip on either side run down so precipatately that the ditch becomes a dead certainty. That is not the worst, for the absolutely vertical wall of from 56 inches upwards on the far side of the ditch means the smashing to splinters of any vehicle travelling at the mos moderate speed, not to speak of what may happen to the occupants of the carriage. We would not harass "the net gov"ment" but —here's its chance!

SUBSCRIPTION RATES Postage preait Canada and Goge Britain, \$1.00 Per Yaz Single copies 15 em Postage preait United States and Foreign Counting, \$1.50 Per Yaz

Failing to receive paper, you should notify the office a once, when mistaka if any, will be as rected immediately

All Subscriptia must be paid for a advance and no sil scription will b accepted for a sion period than a months.

Advertising copyle order to secure god position should be our hands not late than the 15th of the month preceding the of issue. Advertising num furnished on application.

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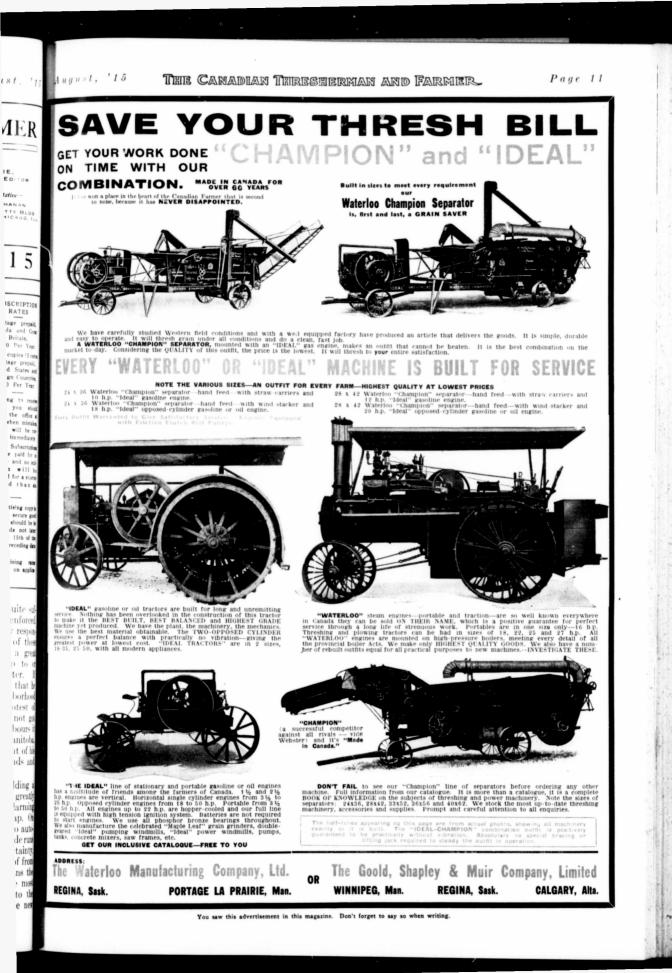
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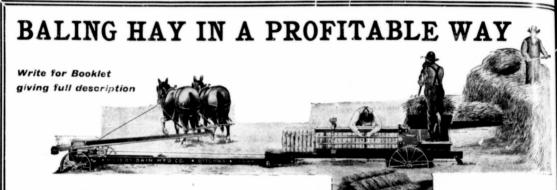
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THE CANADIAN THRESHERMAN AND FARMER

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# **DAIN** Pull Power

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#### HAND or SELF-FEED

Pull Power means that the plunger is drawn towards the horses-not pushed away from them. The step over is low down which makes it easy for the horses. Capacity is therefore increased. Bales are delivered in front, and do not interfere with placing which makes it easy for the horses. Capacity is therefore increased, hales are derivered in front, and do not interfere with pacing the Press in the most convenient position near the centre of the stack. Delivery of the bales in front keeps them out of the chaf and dirt and out of the way of the operator. Large Feed Opening makes the DAIN easy to feed. The Automatic Tucker insur-neat, smooth, square-ended bales. The DAIN Hay Press being all steel, no difficulty is experienced by warping when expose to the weather or swelling when in contact with damp hay. Steel Bed Reach connecting the power and press. Plunger Head and Draw Bar are steel. This also means, in addition to the above advantage, that its construction is such as will stand the heav strain a Hay Press is subject to.

> The DAIN Hay Press possesses many advantages by way of Construction, Ease of Operation, Low Cost of Maintenance.

John Deere Plow Co. Limited, WINNIPEG, REGINA, SASKATOON, CALGARY, LETHBRIDGE, EDMONTON

You saw this advertisement in this magazine. Don't forget to Ly so when writing.

**B**RANDON and Regina held their fairs in July with much fear and trembling only to be agreeably disappointed by record crowds and record receipts.

One of the sources of anxiety had been the elimination of the Winnipeg Fair. It was feared that the absence of the very attractive prize list always offered by Winnipeg would reduce the number of exhibits and exhibitors. It is possible that a few did drop out on this account but in their place came a number of men with smaller studs, flocks and herds, which was a real advantage to both Fairs. There is no doubt whatever that in the case of Brandon at least the absence of Winnipeg improved the attendance. The smaller breeders coming in and securing a goodly share of the prize money, has laid an excellent foundation for next year. It is always better to have ten exhibitors with two animals each than two exhibitors with ten animals each.

At Brandon possibly the most notable feature was the increase of dairy cattle, while all cattle classes were numerically stronger, and higher in average quality than they have ever been before. Brandon also had a very fine Dairy exhibit, and while there was an absence of poultry ex-

## FARM PROBLEMS By E. CORA HIND SUMMER FAIRS

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hibits from the United States there was a distinct increase in Canadian Western exhibits. Brandon was an all round good fair, with a record attendance.

## Homemakers

The outstanding feature of the Regina Fair was undoubtedly the exhibits of the Homemakers Clubs. The cattle were good, the horses were good; there was a fair exhibit of sheep and swine, but for the first time in the history of the West the industries of cookery, needlework, horticulture and dairying, as they are carried on in the farm homes of the province, were adequately represented. Fifteen Homemakers Clubs competed, and perhaps the best thing that will come out of it is the increased respect which the farm women will have for their own work, and the increased appreciation of the men of the farms for what the women are doing. There was an enormous quantity of exquisite needlework, particularly in the

line of house linen and lingerie. It was not only that there were elaborate pieces of work but there was beauty of design and examisite execution. Nor was the needlework at all confined to the ornamental. There were many well made gowns for children, men's shirts, etc. There was much excellent knitting, good home-woven blankets and rugs, and many other things along that line. The variety and quality of the preserved fruits and pickles was a marvel. Of special interest being the native pre-served fruits. There was excellent homemade soap both hard and soft. Butter, cheese, potted meats, home cured ham and bacon, eggs and bread, buns and cake galore. It was not only the high quality of the edibles but the tasteful way in which they were put up, which attracted attention. There was some very good art in the shape of pictures and crayon drawings, and some hammered brass work, but the real love of art found its bes pression in the beauty of flowers, the taste with w they were arranged, and artistic finish given to all the stuff shown. Regina is to highly commended on gi space and excellent prizes these exhibits, and it is to further commended because ing the value and beauty of exhibit, the Board decided provide an entire building for women for next year. The nothing perha; s which can ; a greater stimulus to the wo of the farm homes than to real how well their work measured

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Hay Press

| Ama  | teur   | Finish                | ing                     |
|--|--|-----------------------|-------------------------|
| Size of Roll<br>Films  | Developing<br>per roll of 6<br>Exposures                         | Unmounted<br>Prints   | Mourie<br>Pring         |
| per doz.   |  | per doz               | per des                 |
| 24x34 /<br>24x44 (   | 10c.   | 35c.                  | 45c                     |
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The Department of Agriculture r Alberta has just added to the staff Alex Galbraith as Superintendent of Institutes and Fairs. and Lecturer on Animal Husandry in the University. It ould be difficult to think of a ore appropriate appointment. Alex Galbraith is known all over anada, the United States and in Great Britain, as one of the best udges of horses, not only that but he has been and is a most successful breeder of high class orses. He has judged at the horses. He has judged Royal in England, the Highland Scotland, Madison Square ardens in New York, the Inter-

national at Chicago and Toronto, Ottawa, Winnipeg, Brandon, Regina, Calgary, Edmonton and Vancouver in Canada. He has done something more

than this. He has set up for horsemen a very high ideal of the duties and privileges of the exhibiter. He is a man of thorough education, not only in books but in the world of men, and he will be a very valuable acquisition to the new Agricultural Section of the University of Alberta.

## The Tractor on the Farm

There is no doubt in the mind of the writer that the gasoline or oil tractor should and does occupy an important place in present day agriculture. The smaller size tractors now being put out by manufacturers is reducing very materially the size of farm on which a tractor may be operated with profit. It is quite certain that a 16 to 25 horse-power tractor developing 8 to 13 horsepower on the drawbar can now be operated profitably on a 200 to 250 acre farm. The essential requirements on the part of the farmer who will own a tractor are: that he understand his machine thoroughly or employ skilled help to operate it; that he plan carefully the work so that the tractor can be kept at work at least as much of the time as horses would be; that he have only a little more power in the form of tractor and horses than he would otherwise have in the form of horses alone.

In the tractor it is well to look for tractive power with the least possible weight. Heavy tractors often have a bad compacting effect on the soil. The greater the bearing surface, the greater the tractive power and the less the compacting of the soil. In general there are three types of traction wheels: the ordinary wheel with prominent grouters, the drum type, large diameter and wide wheel with small or no grouters, and the creeping type of tractions parts.

The reliability of the tractor can best be judged by machines of its make that have been observed in operation for some time.

#### Proof

In a certain local store a lustylunged auctioneer was holding forth in flowing terms on the virtues of a particular brand of cigars he was endeavoring to induce his audience to purchase.

Holding up a box of cigars, he shouted: "You can't get better, gentlemen, I don't care where you go, you can't get better!"

go, you can't get better!" "No," came a cynical voice from the back of the crowd, "you can't. I smoked one last week, and I'm not better yet."



The Canadian Thresherman and Farmer

August, '15





## Sewn-Canvas Thresher Beiting

NOW is the time at which every man who has a crop of grain in his fields should provide for the ingathering and threshing of what promises to be the heaviest and toughest harvest in many years. Your crop at threshing time is largely at the mercy of the BELT. Protect yourself against breakage and get a

"Dreadnought"

We sell more "DREADNOUGHT" sewn-canvas thresher belts than any other concern in Canada. They are manufactured in England from the Highest Grade Cotton Duck to specifications called for by the Western Canadian Market .- We are the sole importers and carry a very large stock. All our belts are seasoned with non-freezing oil and will not harden in cold weather. Write at once for samples. Handled only by first class dealers. Dealers Wanted Everywhere.

## Perfect Satisfaction Guaranteed.

WINNIPEG 85 Water Street ERAL SUPPLY CO. of CANADA Ltd. OTTAWA TORONTO

#### You saw this advertisement in this magazine. Don't forget to say so when writing,

## THE REMINGTON ARMS PLANTS NOT FOR SALE

Mr. Samuel F. Prvor, vicepresident and general manager of the Remington-Arms-Union Metallic Cartridge Company, says that no amount of money which anybody might offer would induce the owners to dispose of the plants and thus prevent the performance of existing contracts.

During the last few days there have been very persistent rumors to the effect that Germany was seeking to purchase American ammunition making plants, not so much on account of any shortage of ammunition for its own armies as with a view to putting an end to the tremendous shipments which are going forward to the Allies. The Remington Arms-Union Metallic Cartridge Company and the Bethlehem Steel Company have both been specifically named as objective points of the German efforts.

But it now appears that there is not the slightest chance of Germany securing a dollar's worth of interest in either of these two great concerns.

Mr. Samuel F. Pryor, vicepresident and general manager of Remington Arms - Union the Metallic Cartridge Company, has been seen in regard to the persistent rumors that have lately been in circulation, to the effect that offers made by a foreign government for the purchase of the properties of that company were under consideration and that the additions to the Ilion and Bridgeport plants, which are under construction, are intended to be merely temporary and made only

for the performance of special contracts entered into and are not intended for the permanent uses of the company.

Mr. Pryor was very emphatic in asserting that there was not the slightest foundation for these rumors; and he pointed out that one story necessarily destroyed the other, because, if a sale of the plants and properties was made. the additions would not be required for the purpose of enabling the company to perform its contracts for the supply of arms and ammunition.

Mr. Pryor stated that no sum which might be offered for the properties would afford the slightest temptation to the owner to dispose of them and thus prevent the performance of existing contracts. Mr. Pryor was equally emphatic in asserting that the additions to the plants did not constitute a mere temporary expedient, but were largely made in accordance with the general policy of expansion adopted by the company before the outbreak of the European war, and that this policy would not be interfered with even if the war were to come to an end to-morrow. The additions to the plants, now under construction, are of the most modern type and of the most substantial, durable and permanent character.

#### MIXED FARMING IN WESTERN CANADA Continued from page 9

that the fall prices are always low. The Winnipeg market usually touches low level about December and usually touches the year's high water mark in May or June. The difference between the two is often quite considerable. Now, a large part of the stock that floods and depresses the fall market is thin, unfinished or half-finished It seems almost indisputstuff. able that much of this would have been much more profitable to the raiser if it had been stall fed over winter and marketed on the high spring market. Of course, cattle that are fat in the fall should be

marketed then, as it will not p to carry them over ; also mean, thrifty brutes should be dispose of at once at any time of year, b many of the thin cattle sold in the fall only need good feed to ma them into a good finished artic

Shelter for Beef Cattle On a strictly beef-growing p

## The PARTRIDGE AND HALLIDAY

## System of Plumbing and Heating

The greatest comfort of the home is the complete system with which all m houses are equipped. The sar bathroom with its examel bath tul shower, the running water to w the kitchen, the have that appe country residents as ideal. The pneumatic water supply sp

wasn too country residents as total makes it possible to have water anywhere in the houses yard, for all dome the cost i fire hotector any country re-afford to install it. The mo-courses are the simplicity

that almost every country re-afford to install it. The mos-features are the simplicity of scallation, its durability and increase in comfort do imi-im. The principle of the system is simple. Water in-from any source into an air-tank located in the cellar, small building erected over even buried in the earth if do The advantages of this sy-the tank can be more easily the tank can be more easily the tank can be more easily to right, and has the addition tage of being hidden from vi-The amount of water req-extent of the system should a type de installation, and the windmill or power. OUR HEATING SYSTEM

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old as well as new buildings IDAY WINNIPEG

You saw this advertisement in this magazine. Don't forget to say so when writin



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## ALLIDAY

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n a different footing, it would ppear that the cost of buildings s too high to justify anything ery elaborate for the shelter of cattle whose yearly crop is onehalf each. This is an important phase in the question of cost of roduction. The results obtained rom cheap sheds and wintering n woods or bluffs are so nearly as good as the best stables can show, that, aside from appearance, the latter can hardly justify themselves. Certainly the new beginner in beef production is foolish to tie up a large portion of his

## Soldiers in the Harvest Fields

capital in buildings.

Announcement is made elsewhere in this paper that arrangenents have been completed with the military authorities to allow any soldiers now at Camp Sewell to have a month's leave of absence for the purpose of helping farmers with the crop. This is a splendid concession to our armers and it is hoped that many of them will avail themselves of the opportunity provided by furnishing the Provincial Employment Bureau at Winnipeg with full particulars of their needs.

was the question of an adequate supply of harvest help, and every effort is being made by the department to avoid any shortage of hands during the rush season this year. A special rate of one cent per mile was arranged with the railroads, and about 3,000 men have been sent out from Winnipeg by the Provincial Employment Bureau to date.

The offer of the Militia Department to grant leave of absence for a month to any soldier who desires to help with the harvest and to pay his railway fare from Camp Sewell to the farmer and back again shows the importance that is placed by the authorities upon the proper handling of this year's crop. Many farmers' sons, who have enlisted for service at the front, will be able to return home to give a hand; many other capable men will be ready to hire out to farmers needing

their services for the busy month. The Provincial Minister of Agriculture has been very prompt to act upon the offer of the military authorities and arrangements have been made to have a Manitoba government tent at Camp Sewell where applicants from the various regiments may register their names and receive their assignments to various farmers

tions from the farmers are being dealt with, and it is anticipated that the plan will work out very satisfactorily.

To this end the Provincial Department of Agriculture is urging all farmers to send in at once their applications for help, stating how many men are required, when they are to start work, the amount to be paid for the month's work and the name of the railway station nearest to which the

We have a Full

Line of Seasonable

Repairs.

"QUALITY AND

SERVICE "

We are High in Quality

and Low in Price.

ment Bureau, corner Main and Water streets, Winnipeg and NOT to Sewell. This is absolutely necessary.



Write for Prices on: Mower and Binder Knives. Sections. Guards. Guard Plates. Pitmans. Link Chain Belting. Leather, Canvas and Rubber Belting.

Endless Thresher Belts.

Binder Canvases. Metal Truck Wheels. Evener Sets, Harrows and Packers, Plow Shares. WRITE TO-DAY.

THE JOHN F. MCGEE CO. (Dept. C) 74 Henry Avenue, WINNIPEG, MAN.

## The Canadian Thresherman and Farmers

Without realizing it the agricultural world is undergoing a coming of the "man with the hartremendous transformation. It is emerging from the dominion of animal power and passing into that of gas and electricity. And this is no idle phrase. The nine-teenth century saw commerce and industry, transportation and manufacturing, pass from the realm of human and animal power to that of the inanimate machine driven by steam and electricity. The twentieth century will see the same revolution accomplished in the agricultural field and in the rural homes.

Page 16

Many of us are old enough to remember the passing of the

EQUITY THRESHER BELTING At Unprecedented Prices freight paid FREIGHT PAID. to any station in Sask : PRICES. ENDLESS CANVAS BELTS ! Wid \$22.85 28.10 26.35 32.45 32.45 33.40 41.25 33.40 41.25 34.70 32.70 40.35 45.60 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 41.80 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 40.90 50.90 CHE THE SASKATCHEWAN GRAIN **GROWERS' ASSOCIATION** MOOSE JAW, Sask.

"man with the hoe" and the row. That has been accomplished within the last half century. It is less than two hundred years since Jethro Tull published his Horse Hoeing Husbandry, which introduced the horse into the problem of cultivation. It is scarcely fifty years since the mower, the reaper and the thresher, by allowing the use of the horse relieved man from three-fourths of the burden of farm work, multiplying his producing capacity many fold. These changes came gradually and for a time kept pace with the advancement of steam transportation and steam industry in the cities. But horse power can no more compete with steam, electricity and gas power in the agricultural field than it could with this same power in the various fields of transportation and industry. The horse as surely will be eliminated from the farm work as it has been from the lines of transportation; and electricity will within a very few years eliminate the back-breaking drudgery in the farm home as it has already in the cities.

The present war has demonstrated the almost limitless application of gasoline power. It has changed the mode of warfare of all civilized nations. The airmen, soaring above the contending armies render surprises impossible. The motor trucks have taken the place of the slow commissary train, and motor cars, armored and armed with quick firing guns have taken the place of the ancient chariot and will soon displace the cavalry for charging purposes. We mention these things only to show with what rapid strides we are leaving the old fields of endeavor and entering the new, and this is as true in agriculture as it is in war.

Civilization is measured by man's ability to control natural forces. The less of his personal strength a man is obliged to use the more efficient he becomes. In the sweat of his brow the "man with the hoe" tilled the stubborn soil, he reaped his harvest with a hand sickle and threshed his grain with a flail. Then he brought the horse to his aid and contrived machines to utilize this abundant animal power, but the horse is not equal to the demands of the times. The conservation of moisture which has become the dominant problem of modern agriculture demands an ever ready and tireless power; for the difference between success and failure may and often does depend on the necessary work being done within forty-eight hours—a task which the available horse power is not equal to.

Do not get the idea that this is written in the interest of the power manufacturers and is a plea for farmers to buy expensive tractors to do their work, for it is not the case, but it is a warning to farmers everywhere that the **old** is about to die and **the new** to be born, and that **new** is the age of inanimate power.

As the farmers power is measured by what he can accomplish, anything that will save human muscle will increase his efficiency. And we think we are safe in say ing that the average farmer needs a two to four horse power gasoline engine to do the labor saving stunts about the farm before he needs a tractor. That is bound to come in time, but what he and his wife want now-immediately -is some power to relieve them of the drudgery about the house and harn- a power to do the little things that have heretofore been done by main strength and awkwardness.

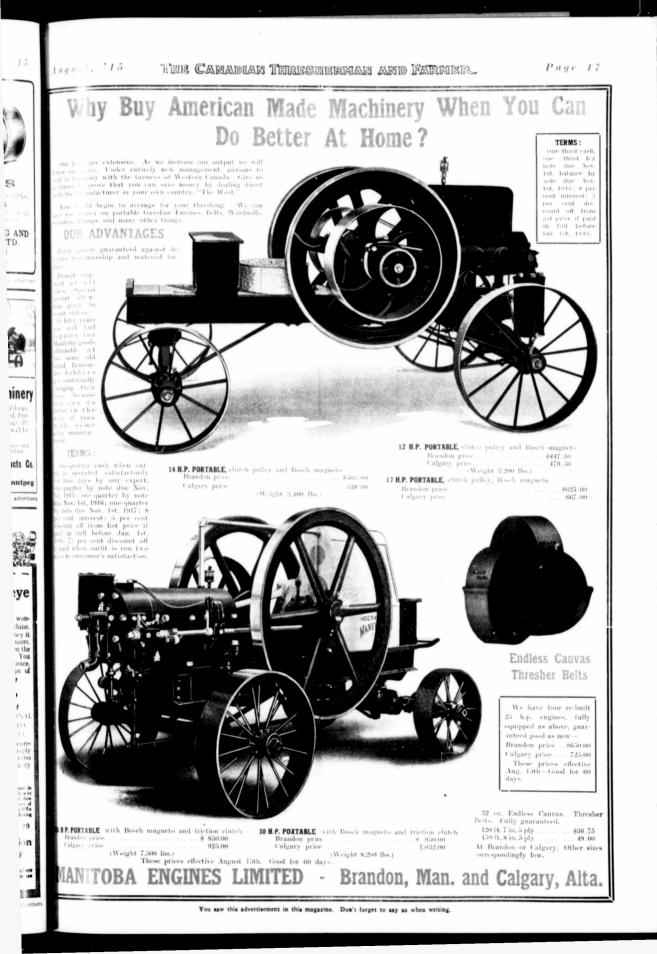
While we are discussing farm power let us not forget that the wise man saves his own strength as well as that of his horses by adopting the ordinary labor saying devices and that no up-todate farmer should be without them. We refer to such things as hay-loaders for the field and hay forks for the barn, manure spreaders, litter and feed carriers. good clean barns with cement floors. All these things are money makers, they are not luxuries. They will all pay for themselves many time over by the increased efficiency they give the farmer and his hired men. Time is money on the farm as nowhere else, and anything that saves the time of both man and beast should be installed if possible.

Yes, we know that there are thousands of farmers who can not afford these things-who think they must go on in the old way, loading their hay by hand, feeding roughage in the shock or shoveling the manure out of the barn through a hole in the wall to remain piled up against the side to rot and leach. "We can not make these improvements because we can not get the capital," they say. This doubtless is true in many cases with the beginner in a new country. But the longer he waits to get able, the less able he will become. What would you say to a man in this day and age who insisted on cutting his grain with a cradle and his grass with a scythe because he has not the capital to buy a binder and a mower? You would tell him that no matter how poor he may be, to try to get ahead by such Continued on page 18

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The Canadian Thiresherman and Farmer.

#### FARM POWER—WHAT IS IT? By Richard A. Haste Continued from page 16

a folly. The only means would way to be able to buy a binder and mower is to buy and use the machines. It is just so with the other improvements about the farm. Buy them and they will pay for themselves. The man who goes without a barn because he can not afford to build one, and without a silo and feed carrier and a litter carrier and a manure spreader, or a hay loader or a windmill or a gasoline engine because he is afraid he can never pay for them, will always be handicapped - the world will

move away from him. His neighbor who has the nerve to make things work for him will ride by in his automobile with time to play while his own back is bent beneath the heavy load of human drudgery.

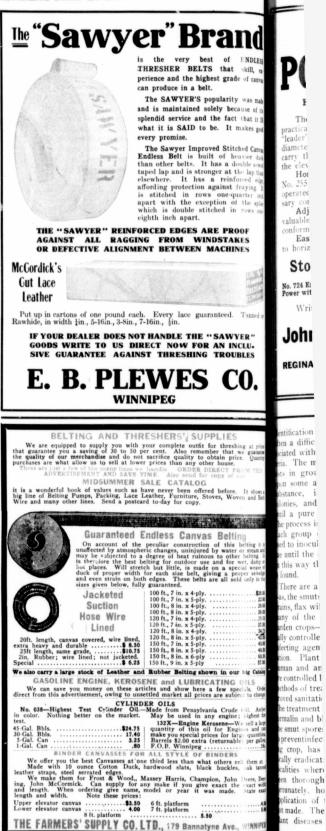
Farm power means not only the various forces that make the wheels go around, but every device that lessens human labor and increases the farmer's individual efficiency. Good fences, good barns, granaries, silos, are all expressions of farm power as much as is a gasoline engine to pump the water and light the house or a tractor to plow the fields and seed the grain.

# A What Science Dees For &

Modern science has done much to improve the lot of man through a better understanding of life processes. His diseases are being studied, and as a result of modern methods of sanitation, antiseptic surgery, and serum therapeutics many diseases that once were scourges are now controlled. A factor in the further betterment of the condition of man is the improvement of his food. It must be made cheaper, more wholesome, more nutritious; these are some of the problems that are being investigated, particularly by those scientists connected with the various universities and agricultural experiment stations of this and other countries.

The improvement of farm crops has been a gradual process of evolution extending from remote antiquity, when primitive man obtained his food from the chase and from such uncertain sources as the fruits and seeds that nature provided. In order to supplement nature's supply, man was forced to sow and garner seeds, and from this beginning dates the improvement of food plants. They have been domesticated in much the same way as farm animals, and in this man has greatly assisted nature. It is working in harmony with nature's laws and not against them that produces results. There are certain habits and characteristics of growth that have been acquired by plants through centuries and have become fixed, but not so rigidly as to resist all forces, particularly those that tend to improvement. It is due to the inherent tendency of plants to improve under favorable conditions that man is able to come to nature's assistance and aid in the improvement of farm crops. In this achievement man, exalted as he may feel, is not the master but simply the servant of nature.

In many respects plants are like animals; they are subject to disease, preyed upon by insects, dependent upon food, and affected by climatic conditions. Plant diseases destroy large numbers of useful plants, greatly reducing the food supply, and in some instances causing famine, as in the case of the potato blight in Ireland over half a century ago. During recent years the diseases of plants have been extensively studied, and as a result they are now better understood. Many of them have been found to be due to specific fungi or to bacterial organisms, which either destroy the tissue of the plant or produce poisonous or toxic bodies. A knowledge of the causes of plant diseases has led in a number of cases to their control. The plant pathologist studies plant disease in much the same way as the progressive physician studies human diseases. The laboratories of plant pathologists form in reality the plant hospitals, and the results secured in them have been of great economic value. The tissue of a diseased plant is studied with the microscope. In some cases fungus bodies can be distinguished intermingled with the diseased cells. The fungus has fed upon the plant tissue, extracting nutritive substances and causing the diseased condition. In other cases the disease is brought about by bacterial bodies, which are distinguished with difficulty. Again, a chemical irritant or poison produced as a result of the activity of bacteria may be the cause of the disease. The separation and



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August '1:

SUR TILLY LIBRARY Page 19 15 The Canadian Thresherman and Farmer ugust, MARSEILLES TUBULAR STEEL **PORTABLE GRAIN ELEVATOR** ENDLESS hat skill, e grade of canva rity was made Handles all kinds of Small Grain Satisfactorily. Capacity of 15 to 20 Bushels per Minute. because of in The Marseilles Portable Steel Grain Elevator is the newest, the simplest and most practical grain elevator in existence. Like every other "John Deere" product it is the "leader" in its line. Elevator leg is constructed of 3-16 inch well casing 614 inches in fact that it li It makes god diameter, conveyor chain runs through this casing and is fitted with round flights which titched Can earry the grain. These flights are fitted accurately to the casing, carrying the grain to heavier double s carry the grain. These lights are inteed accurately to the casing, carrying the grain to the devator head, smoothly and without grinding or unnecessary friction. Horse or Engine Power, Marseilles Portable Steel Elevator can be operated by our No. 255 Two-horse Hercules Triple Geared Power, horse power or gasoline engine. When operated by engine power our No. 724 engine attachment can be supplied with the neces-mentations to be used with the horse power outfit. at the lap inforced st fraying. of the split Adjustable Feed. This elevator is equipped with adjustable feed which is a very in rows valuable feature when operating with a small engine, the quantity of grain elevated can conform with the power of the engine and whatever quantity desired can be elevated, ROOF Easily Handled. By merely turning a hand crank the elevator can be quickly lowered AKES IINES to horizontal position for transportation purposes. Stocked in Two Sizes: No. 759 is equipped with a 23 ft. tube. No. 760 same as No. 759 but with a 28-ft. tube. No. 724 Engine Attachment for Horse Power Outfit. No. 255 Two-Horse Harcules Triple Geared Power with 1 14-ft. Large Tumbling Rod, 1 Large Coupling, 1 Block Rest and Compound Coupling Write for special booklet giving full details. I. Tanned John Deere Plow Co. Ltd. VYER" NCLU-WINNIPEG UBLES SASKATOON LETHBRIDGE REGINA **CO** EDMONTON CALGARY Horse Power Outfit with Swivel Fxleible Discharge Spout You saw this advertisement in this magazine. Don't forget to say so when writing. brought under control, and from ntification of the organism is affected with bacterial growths REATWESTWOVENWIRE FEND which there is no longer any need en a difficult task, as it is aswhich, from a pathological point iated with other forms of bacof heavy financial loss on the part guara Quar of view, might be considered a dia. The method followed con-

ts in growing the organisms on some appropriate nutritive stance, isolating individual lonies, and reproducing them til a pure culture is secured. he process is one of elimination.

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h group of pure cultures is ed to inoculate sound plant tise until the disease is produced. this way the specific organism found.

There are a number of diseases as, the smuts of wheat and other ains, flax wilt, potato blight and my of the fungus diseases of rden crops-that can be effectlly controlled by the use of disecting agents and better sanition. Plant diseases resemble man and animal diseases, and econtrolled by the same general thods of treatment, such as imoved sanitation and disinfection. treatment of seed wheat with malin and bluestone to destroy smut spores on the seed, so as preventinfection of the succeedg crop, has resulted in pracally eradicating this disease in calities where the remedy had en thoroughly applied. Unrtunately, however, a general plication of this knowledge is made. There are a number of ant diseases that have been

of the farmer and the gardener if the proper precautions are taken in the treatment of the seed, soil and crop. Undoubtedly the time will soon come when laws will be passed with the view of controlling certain pestilential plant diseases, as is now the case with human and animal diseases.

Plants often acquire a certain immunity to disease. When a plant has had a disease in a mild form it is believed that its progeny, as in the case of animals. may acquire a certain immunity due to the antitoxins developed in the cells as the result of the disease. It has been noted that during the years following heavy losses from wheat rust there is a tendency for the disease to be less severe, due, it is believed, to the seed having acquired a partial immunity. So far the development of immune varieties of plants can scarcely be said to have passed the experimental stage; this is, however, a line of investigation which promises to give fruitful results, and is being prosecuted by a number of experiment stations.

Not all bacterial affections of plants can be regarded as injurious diseases. The roots of clover, alfalfa, peas, beans and other members of the pulse family are

seased condition, yet the organisms working within these growths are of great assistance, aiding the plant by securing from the air free nitrogen, which undergoes fixation by the organisms and is then used by the plant as food. When the roots of the clover decay the soil is enriched with nitrogen compounds that serve as food for grains and other crops which are unable to assimilate directly the free nitrogen of the air.

Inoculation of the seed and soil with the specific organisms that carry on the work of acquisition of atmospheric nitrogen has been successfully practised for a number of years. Only a few soils, however, are in need of inoculation. The proposed method of distributing the bacteria in the form of dry cotton cultures, like a package of yeast, has been shown by bacteriologists to be a disastrous failure because the organisms are destroyed when the material is dessicated. Wide publicity was given to this method and it was the popular belief that it would be a great boon to agriculture; but it has been proved worthless, and the verdict of science is against it.

The improvement of crops has



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## The Canadian Thiresherman and Farmer

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also been greatly facilitated by the selection of seeds. In the struggle for existence the weaker seeds succumb. When the stronger ones are given additional assistance, in the way of better food and better sanitary conditions, the individuality of the seed is able to exert itself.

To be concluded in Ser

THE WEED PROBLEM ON DRY FARMS By Dr. Frank S. Harris

When a dry farm is first taken up or purchased every effort is made to get it into a good state of cultivation just as soon as possible. All the farmer's energies are used in getting it cleared and broken and started to raising crops. Little thought is given to the permanent welfare of the field in the rush to start the land producing. This often leads to slipshod methods of farming which are likely to be continued later even after the breaking stage is over.

One of the disastrous results of these methods is the growth of weeds, the presence of which in any large quantity makes dryfarming sure to fail. In passing over the great dry-farming areas of the entire west one cannot help but be impressed by the abundance of these noxious intruders. They are found every-where. True, there are farms here and there that are free from weeds, but the great majority of the fields are literally infested around the borders and on the uncropped pieces, as well as in the crops themselves.

### "A Weed in Time-"

The weedy borders furnish a perennial source of seed to keep the entire farm foul. It is very much easier to get rid of the few weeds next to the fence before they go to seed than to have to combat during the next season the millions of young plants resulting from these prolific mothers. The old saying that a stitch in time saves nine might be paraphrased to read: "A weed in time saves a thousand."

It is absolutely useless to pretend to summer fallow if a crop of weeds is allowed to grow. The object of cropping only during alternate years is to allow the moisture of two seasons to be used in producing a single crop. If weeds grow during the year when there is no crop the moisture is used up just as completely as if a crop of wheat were raised. So, even if these weeds are not allowed to go to seed, they do harm by robbing the soil of its much needed moisture.

Even more serious than the above is the growth of weeds in the crop itself. They are usually more hardy than the cultivated

plants, and are more successful in the competition for water and plant food. The yield is not only reduced, but the quality of the crop is impaired, since the weeds interfere with harvesting and their seeds lower the market value of grain.

## Kill the Weeds when Young

There are a number of weeds that are especially troublesome on the dry farm, and these should be carefully guarded against in order not to allow them to get a start. Among the worst of these are the Russian thistle and the tumbling mustard. Both of these produce thousands of seeds to each plant and these seeds may be scattered over a large area, due to the fact that when the plants are ripe they go tumbling over the fields with the wind, scattering their seeds all along the way. A yellow row of blossoming mustard a half mile long was once seen stretching across a field of grain, marking the path of a single plant on its journey of seed dispersion. The next year the field was a solid mustard patch.

In regions infested by Russian thistles it only takes a year or two of neglect for them to get complete control.

There is no single thing to do to get rid of all weeds. Each kind has its own weak point where it can be best attacked. The general rule, however, is to kill all weeds when they are young; better, just after they have germinated. Most any tillage implement will do effective work at this time, but if weeds are allowed to get old and tough no implement can make a perfect job and much hand work is necessary.

The weed question is perhaps more important in dry-farming than in any other system of agriculture. Its complete solution calls for the best ingeunity of practical farmers, implement manufacturers and experimenters.

Perhaps the place where greatest results can be had is in the better care of new land to see that it does not become infested during the period when more of the farmer's efforts are being given to getting the land under the plow than to the establishment of a good system of farming. A little work of prevention at this time will save much trouble later on.

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## Aged and Shriveled

Pat's boss was treating him to a thimble-size glass of his best old stock and, thinking to impress Pat with his liberality, he said: "Pat, that whisky is seventy

years old." "Faith," said Pat, "if it is, it's

dang small for its age!"



#### August, 15

zed authority.

raphite?

A. So far as we know, no com-

arative tests have ever been

nade with grain separators of

different makes. It is the writer's

inion that for the same size of

achine there is very little differ-

nce in the amount of power re-

uired to run any of the standard

achines. There appears to be

me saving effected by wetting

oal before it is fired. It prevents

he fine dust from sifting through

nto the ash pan and being lost.

t also, when used in small quan-

ties, appears even to make the

oal burn better. The coal should

e wet before it is thrown into the

rebox. It doesn't hurt the flues

the fire box in the least to wet

he coal. If you can get a boiler

ompound that is exactly adapted

the chemical requirements of

he water you are using, you will ind it satisfactory, but in order to

letermine if you are getting such

compound, it will be necessary

have a chemical examination

nade of the water. This is ex-

ansive and where you are chang-

g water from one part of the

erritory to another it hardly ays. On account of the differ-

ice in the kinds of water that

hreshermen use, we have never

ared to recommend a boiler com-

ound. We believe you would

ave better success with graphite

nd recommend that you try it,

sing the quantities recom-

Q. R.S. Last spring I took a

b of breaking 35 acres for a man

ho had one end of the field

illed.. We had to go around the

tilled portion for a while, but

finally one morning when I was

at the opposite end of the field

he pointed down towards the

that 103 tiles were broken. Now

he wants me to pay damages.

and said to

between where those

are standing,"

Afterwards he found

me,

tilling,

"Cross

we did

two cows

nended by the manufacturer.

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**Ouestions and Answers** 

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Can you tell me if there is Can he hold me responsible or Q.

difference in the power renot? ired to run the same sized sep-A. As we understand the case, rators of different makes? It the person for whom you worked ems to me that some of them un heavier than others but I 35 acres. ave never seen any statement to

had a tiled ditch at one end of the You went around the ditch until you were told that you hat effect coming from a recogmight cross at a certain point. I should also We do not believe you are liable ke to know if there is any benefor any injury caused to the tile t in wetting the coal just before for two reasons: 1, you kept away ing. Will it make the coal last from the tile until you were told ager and hold steam better? where you could cross the ditch; oes wetting the coal injure the 2, having crossed the ditch at the mes and the fire box? What is place pointed out by the person he best boiler compound for prefor whom you were working, that enting the formation of scale person assumed the responsibility at will not injure the boiler? for any damage which came from What do you know about crossing the ditch at that point.

> Q. N.S. 1. I would like instructions for putting in a new boiler tube, using a roller expander. How can I keep the flue from turning while expanding it before it becomes tight?

> 2. What are the advantages of a Baker reverse gear over other makes

> 3. Does an engine fitted with a Woolf valve gear have more lead at one end than at the other.

> A. 1. In putting a new tube in a boiler you will have to have somebody at the opposite end to hold it in place with a heavy bar of iron. There is no trouble about the flues turning when you are expanding it. After the tube is placed in position, the expander is inserted in the end of the tube until the shoulder comes up against the end of the flue. The taper pin is then driven in fairly tight after which it is jarred loose. The expander turned about a quarter of a turn, and the pin is driven in again. There is in this way no turning effort on the tube at all, but simply a straight end thrust which is taken care of by the man at the opposite end.

> 2. The Baker reverse gear provides for a quick opening of the steam port and a quick closing. The lead is constant at all points of cut-off and it can be set for practically equal cut-off on both forward and return strokes of the piston. We have seen indicator cards taken from engines fitted with the Baker reverse gear that very closely resembled Corliss engine cards. The Baker reverse gear belongs to the class of radial gears which includes the Woolf Reeves, Springer, etc.

> 3. Engines fitted with a Woolf reverse gear have the valve set with a little more lead at one end than at the other in order to obtain equal cut-off.



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This is no idle statement but is backed up by the experience of thousands of Farmers all over the world, many of whom have Massey-Harris Binders which have been in use for from ten to twenty years and are still giving the best of satisfaction.

If you have never used one, ask your neighbor who has, and profit by his experience.



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## THE CANADIAN THRESHERMAN AND FARMER

#### Talk No. PRACTICAL TALKS TO THRESHERMEN XCIV. Conducted By PROFESSOR P S ROSE

Note .-- The term "gas engine" in these lessons will be used indiscriminately in speaking about all internal combustion engines. 2

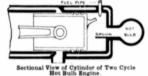
PETROLEUM is the source of most of the fuel used in all internal combustion engines. It is very widely dist ibuted over the earth and with the exception of coal is more plentiful than any other fuel. In this country there are three great fields; the eastern field covers New York, Pennsylvania, Ohio, Indiana, Illinois and West Virginia; the mid-continent field is in Kansas, Oklahoma and Texas, and the western field in California. Besides these oil is known to exist in other states in considerable quantities. There are oil fields in Canada and very rich fields near Tampico in Mexico. South America, although not much explored, is known to contain vast oil fields. In Europe the greatest fields are in Galicia in Austria and around the shores of the Black Sea in Russia. There are large oil fields in India and vast unexplored oil areas in China and Siberia.

A few years ago many very sincere people were greatly alarmed that our petroleum resources would become exhausted in a few vears. The period was variously estimated at from twenty-five to fifty years. Exploration and development work in the last two years in all parts of the world have revealed such immense stores of oil that those best informed now say it will be two hundred years before we run short of petroleum. It will probably last as long as the coal. Two hundred years is a long look ahead, and many things may happen before the human race is obliged to go south with the birds in the fall in order to escape the rigors of a winter without fuel. As long as the sun shines we shall have white coal, the waterfalls, and it requires no stretch of the imagination to conceive of a universal use of electricity for heat and power. But in the meantime the power of the world, that is the cheap, universal, portable power for the rest of your life and mine will continue to be steam and gas engines with a very rapid extension of the latter

Three years ago everyone connected with the gas engine business was frightened at the rising price of gasoline. It threatened the automobile industry, the tractor business and the farm engine industry. The amount of gasoline that could be extracted from the crude oil under the old processes was strictly limited, Petroleum from the Pennsyl-

vania oil fields, having a paraffin base, vielded from ten to fifteen per cent of gasoline but that from the mid-continent and western fields yielded only five or six per cent. In producing the necessary quantity of gasoline the production of kerosene, fuel oil and other products reached an enormous volume. The relative cheapness of kerosene and the heavier distillates together with the high price of gasoline became a powerful incentive to devise some practical method of using these products in place of gasoline Every conceivable kind of carburetor was tried and much experimenting was done with different types of engines, but despite all efforts and all claims to the contrary kerosene and the heavier distillates never gave the satisfaction obtained from gasoline.

Special carburetors were devised whereby hot gases from the



exhaust or hot water from the radiator could be made to pass around the intake pipe and heat the charge. In some cases the oil itself was heated. One of the earliest forms of oil carburetors boiled the oil under a few pounds pressure and used the resulting vapor. About the best results, on the whole, were obtained by using a moderate amount of heat to warm the air and then spraying the oil in a fine spray into the stream of air flowing into the cylinder. This worked quite well with kerosene, especially when the valves and ports were so placed that the unburned particles could escape freely at the exhaust. The most satisfactory results in using kerosene were obtained by using water in the cylinder. This was introduced generally with the charge in the form of a fine spray. In fact it is customary to use a double carburetor one side of which is for fuel the other for water. The action of the water seems to be quite largely mechanical. It keeps the cylinders quite free from carbon and reduces the heat in the cylinders and prevents pre-ignition. When kerosene is used without water the cylinders over heat much more quickly than with gasoline, and some means

must be employed to keep the temperature within working lim-The addition of a small its. quantity of water does this very effectively. The water is first heated, then turned into steam and the steam is then superheated. Water has a high specific heat-four times as high as the gases in the cylinder, weight for weight. Then after it is heated to the boiling point it absorbs twenty times as much heat as the other gases in the cylinder in reaching a temperature of 212 degrees and twice as much from that point on in attaining the same temperature as the burning These figures give a charge. pretty good idea of the heat absorbing qualities of water in an engine cylinder. It might be thought that the amount of fuel could be sufficiently reduced to prevent overheating, but apparently this is not possible. In order to obtain certain combustion with the heavier distillates in the ordinary four stroke cycle engine, the quantity of fuel burned is such that internal cooling is essential.

In burning the fuel oils, those heavier residues left after the gasolines, kerosenes and naphthas have been distilled off, poor success has been obtained with the ordinary gas engine. The successful utilization of these oils requires higher heat in the cylinder at the instant of ignition. and very fine atomization of the fuel. These requirements are met in the hot bulb type of engine and better yet in the Diesel engine.

The hot bulb engine is fitted with a cylinder head that is not water cooled. Instead of having a flat interior surface it is bottle shaped and the opening from the cylinder into the bottle, which constitutes the compression chamber, is quite small. Instead of compressing a mixture of air and fuel these engines take in a charge of pure air and compress it. Compression is carried considerably higher than in gasoline engines when it is compressed in the bottle in the cylinder head, which is not cooled, it becomes sufficiently heated to ignite the charge. The oil is not introduced until the instant for ignition arrives. Then it is pumped into the cylinder and discharged upon a metal spoon See in the neck of the bottle. Figure above. This spoon is hot enough to vaporize most of the oil and to ignite the gas. The spoon and hot bulb are kept hot with the compression and the

burning of the charges. ing, it is necessary to heat bulb with a torch. This ty engine also uses steam. pose is to reduce the heat cylinder and to keep it clean. engine is not used for a t motor, though some expe have been carried out look that end. It is necessarily and the weight more than thing else, perhaps, prevent adoption. It is mentioned in connection merely to acquain reader with one of the types burning motor.

The Diesel motor is w doubt the most successful burning motor made. This n works something on the or the hot bulb motor except compression is carried much er and that alone is relied up ignite the charge. There hot bulb and no hot spoon i oil to impinge upon. Free is taken into the cylinder charging stroke. On the stroke it is compressed to hundred or six hundred p At this pressure air becomes ly heated. When the reaches inner dead center compression stroke, the fuel begins to inject oil. This complished by means of a very high pressure air, wh connection with a suitably for nozzle breaks up even the viscous oils in a very fine and mixes it all through charge of air. The latter h exceedingly hot immedia causes ignition. Fuel is gene delivered during about one of the power stroke. Diese tors have come into quite ex ed use on motor ships and power stations but not for fai tractor use because of their first cost and excessive we The Diesel motor has been ada ed for locomotive service some experiments were ca out with a view of adapting to tomobile and tractor service without much success.

While the mechanics were ily engaged in finding somes and certain means of carburet or otherwise utilizing heavy the oil chemists were working the problem in a different What they endeavored to do to increase the supply of gas by breaking down the heavier tillates as nature must done in the beginning. A more than two years ago Dr.I ton perfected a process for Standard Oil Company, and in the present year Dr. Ritt Continued on page 40

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Page 23

# When you buy your next Steam Traction Engine get one that will give you a service and wear that will make you money

You cannot afford to fool your time away bothering with an engine that is inefficient in any particular.

You can buy the old reliable Nichols-Shepard---made by a strong responsible company that has always devoted its energies to Threshers and Power to drive them.

No fussing about trying to develop lines wholly foreign, but all their work, time and effort being put into just the line you use and want.

You can make money by buying a Nichols-Shepard Steam Traction Engine, because it will make you less trouble than any other.

It will run right along all the season, furnishing ample power and give a steady motion that always insures the very best of results.

It will pay you to buy of the company that has the standing and resources behind it and the desire to build and furnish the best.

You don't thresh for fun. You want to make money and you are sure of doing it with the **Red River Special Line**.

## NICHOLS & SHEPARD CO.

(In Continuous Business Since 1848)

Builders of Red River Special Threshers, Wind Stackers, Feeders, Steam Traction Engines and Oil-Gas Tractors

## BATTLE CREEK, MICH.

BRANCH HOUSES (With Full Stock of Repairs) At Regina, Sask. Lincoln, Nebr. Peoria, Ill. Geo. H. Gallaghe Winnipeg, Manitoba Fargo, N. Dak. Madison, Wis. Des Moines, Iowa Billings, Mont. Minneapolis, Minn Geo. H. Gallagher Co., Spokane, Wash. Kansas City, Mo. Nashville, Tenn. Indianapolis, Ind. Nichols-Shepard Sales Co., Dallas, Tex. olidated Wagon & Machine Co., Salt Lake City, Utah. Nichols-Shepard Sales Co., Dallas, Houston, Texas Con

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the general propriety of the apiary, a little assistance in the fall is necessary. Most of our requeening is done in August and last year, because of the hail and drought in our locality, very little nectar was coming in at that time and the young queens were slow about starting to lay and some of the old queens had discontinued. Entrances were contracted and a point of half and half syrup fed daily for a few days. This started brood rearing at once. We also found several colonies at the point of starvation. In addition to the syrup, these were given some frames of sealed honey. Later in the season it was necessary to increase the winter stores and for this purpose an average of ten pounds of sugar per colony was fed as a syrup, and unusually large amount compared with the two or three pounds of normal years.

Plenty of young bees and ample stores are essential factors in successful wintering. Just before the hives are taken from the cellar in spring, we make up candy in pieces about six inches square and one inch thick. It is not advisal 'e to make too much at once off, as long boiling will spoil it. Granulated sugar is dissolved in a little water at the back of the stove and then boiled rapidly without stirring till it forms a soft ball when a spoonful is dropped in cold water. After cooling a few minutes, it is beaten till white and turned out in tins. The candy is placed over the cluster with a couple of little sticks above or below it, so that the bees may have access on all sides. The quilt is replaced and supplemented by two thicknesses of newspaper and a super containing a chaff cushion set over. In our own province we prefer this to syrup for stimulation purposes in the first chilly days of spring. As soon as a real warm day comes along, stores are equalized where necessary. If a hive is too heavy with honey, a couple of frames are taken out and exchanged for empty ones from a light hive. At the same time we examine to see if any queens have died during the winter. Too much sealed honey in the spring is not an advantage, as the queen may be cramped for room to lay her eggs.

A queen lays two kinds of eggs, fertilized developing into workers or queens, and unfertilized developing into drones.

There are three natural condi-

about queen rearing, when they wish to replace an old or failing queen or when some accident has rendered them queenless. In swarming and supercedure, the bees start some circular cells, the base covering about three times the space of the hexagonal workers cell, and the queen deposits an egg in each. In three days the egg will develop into a larva and find itself provided with a rich. predigested food, known as royal The building out of the cell ielly. will keep pace with the growth of the larva and royal jelly will be lavishly supplied. In eight days from the laying of the egg, the cell will be ready to seal and in seven or eight days more a queen will emerge. A queen is a queen by virtue of a layer cell and richer food while in the larval state, and if an egg is lifted from a queen cell and a worker egg put in its place, a queen will be developed in the time and manner I have just described

In the case of a queenless colony having neither eggs nor unsealed brood, if a pannel of young larva is given them, they will enlarge a worker cell, provision it with royal jelly, and rear a queen in ten days.

There are several plans of rearing queens artificially, but we will consider only two, making use of a queenless colony and making use of the second story of a very strong colony, confining the queen to the brood chamber by a sheet of perforated zinc. In either case, the bees should be stimulated by giving them a little half and half syrup daily, beginning four or five days before they are to commence work on the queen cells. A queen rearing outfit may be had of any supply house and a choice breeding queen is necessary to supply the larvae. If no queen cells are available naturally, a queen may be removed from a colony and the bees allowed to start queen cells to provide the royal jelly. It is essential though that if this colony is to be used for queen rearing that all of these cells are removed before the grafted ones are given.

Attach twelve or fourteen cell holders to a cell bar and insert embryo cells. Have ready a supply of unsealed jelly and a frame of larvae from your best breeder.

Stir the jelly with your jelly spoon so that it will be of even consistency and put a dot of it in each waxen cup. Hold your



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#### 15 August,

The Canadian Thresherman and Farmer

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rame of brood so that you can see ainly. Very carefully slip the ransferring needles under the niest worker larvae, one just atched from the egg, and place it the dot of jelly. It is no nger a worker larvae, but an hrvo queen. It is important at this grafting operation should ake place in a very warm atmosphere. The top bar is then placed the cell frame in the centre of hive, and the bees will comlete the building and the provisoning of the cells. It is far better here practicable to give the emyo cells to a strong second ory, placing these between two rames of unsealed brood as eenless colonies means a serus loss of bees and honey. In ve days the cells will be sealed

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d the bar may be hung lower the frame and another set of mbryo cells given.

Ten days after grafting the first lls are ripe and must be taken nt before they hatch. Very cently, without jarring or shakng, transfer them to the nursery rages, smearing a little honey on he tips of each so that the queens may get a taste as she is cutting her way out. Each cage is proisioned with queen candy made powdered sugar and honey. This can be made up some days before needed and packed in a bowl. In a couple of days, more

ngar may be worked in. It fould be moist and mealy, not ticky or hard. These cages may e given at once to nuclei or placed in the nursery pawn and hung in a second story till anted.

Anticipating the hatching of the ueens, mating boxes and nuclei ust be prepared. A full sized ive may be used, a division board ontracting it to two frames, one of bees and brood, and one of honey. We use a mating box containing four one frame nuclei. Full-sized Hoffman frames are separated from each other by bee roof partitions. Any box or board longer and wider than this hive does nicely for a bottom, and alighting board, and little holes in ends and sides give each nucleus its own private entrance. At the end of the season six or eight nuclei are united and fed from a Miller feeder and we have a strong colony.

Unless nuclei are found of bees rought from a distance, it is necessary to fasten them in for three days by tacking wire cloth over the entrance to prevent the old bees from going home. To keep them in a flourishing condition, a little syrup should be fed daily, and to prevent robbing, they should be placed in a sheltered spot, away from the main vard.

The nursery cage is also a very convenient introducing cage, the ees eating out the candy stopper

and thus releasing the queen. newly hatched virgin may often be introduced by simply placing her on the comb, but the cage method is better.

If nursery cages are not available, the cells may be put in West queen protectors and a cartridge full of honey or candy shoved in the bottom. If you have neither nursery or protector, take a piece of wire cloth, five inches square, pinch it up at the corners to form a two-inch box and ravel out a few strands along the edge, stick a pin in the side of the wooden cell holder and hang the cell on comb containing honey. Place the cage over it, imbedding the edges in the comb. When the queen emerges, she will find herself in a nice little room with plenty to eat. A good plan is to cage cell or virgin No. 2 in the nucleus, three days before No. 1 is removed. When No. 1 is taken out, No. 2 may be released. A queen usually commenced to lay when she is eight or ten days old or several days after she takes her mating flight.

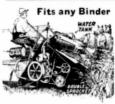
While we are all willing to take pains to rear queens from choice mothers, it is not always sufficiently emphasized that to secure the best results the drones with which the young queens are mated should be from choice mothers also. For this reason, wherever practicable, the mating yard should be four to five miles from any other bees.

As soon as the young queen is laying, she may be sold or introduced to a full colony. It is essential though to be sure that the colony is really queenless or the new queen will likely be killed. When queens are purchased, they come in a Benton cage, having a little hole at one end plugged with candy for the queen and her attendants and a strip of pasteboard tacked over it. The cage is placed between two frames in the centre of the hive and the bees attacking pasteboard and candy from the outside, release the queens in a day or two. With home reared queens, the Miller cage is very convenient, the principle being the same as in the Benton.

Where a queen is to be introduced, so valuable that no chances may be taken, tack wire cloth over the entrance of an empty hive and put in two or three frames of hatching brood and one of honey, taking care to brush off every bee. Bring this into a warm room and release the queen and her attendants. In three or four days there will be quite a little cluster of bees in the hive and it may be set out and the wire cloth removed.

The smoke method seems to be much practised now. Three full puffs of dense cook smoke are blown in at the entrance, which is then tightly closed. In half a

# Cushman Light Weight Engine Saves a Team on the Binder



Fits any Binder This is the one successful binder engine. TAIN Thousands are in use every harvest. Engine drives sickle and all machinery. Since horses have only to pull machine, two horses will easily handle 8-ft. binder in heavy grain. In a wet harvest Cushman Engine saves the crop, as it keeps sickle going when bull wheel slips-it never clogs.

## After Harvest Does All Farm Work Throttle Governed-Sizes 4 to 20 H.P.

Cushman Engines are very light weight and easy to move around from job to job, yet are even more steady-running, quiet and dependable than most heavy engines, because of **Throttle Governor**, perfect balance, and almost no friction nor vibration. 4 H.P., weights only 190 lbs.—106 lbs., when stripped for binder; 8 H.P. weights only 320 lbs., and 20 H.P. only 1200 lbs.. The simple Throttle Governor releases just enough fuel to take care of the load at any moment, thus avoiding the fast and slow speeds at which most engines run. While Cushman Engines are only about **one-fourth the weight** are

While Cushman Engines are only about one-fourth the weight, per horsepower, of other engines, they will deliver as much or more steady, reliable power, per rated horsepower, than any other farm engine. Forced water cooling system pre-vents overheating. Equipped with Schebler Carburetor and Friction Clutch Pulley. May be run at any speed. Moving parts May be run at any speed. Moving parts enclosed and run in bath of oil. 4 H.P. FARMER'S HANDY TRUCK Same Engine Used on Binder

E. W. Gasser, Sidney, Ill., says: "With a Cush-an I cut **10 acres more a day** with less horses. A inder will last 3 or 4 years longer with this engine." Cu-hman Engines are not cheap engines,

Curiman Linguise and the long run. Ask for free Engine Book CUSHMAN MOTOR WORKS OF CANADA Builders of Light Weight Engines for Farm and Binder Use, Distributors of Reliable Power-driven Machines, such as Grinders, Saws, Fanning Mills, as Gri Washing Machines, etc. 286 Princess Street, Winnipeg, Manitoba



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THE CANADIAN THRESHERMAN AND FARMER

minute the bees will be rearing. The new queen is then run in, followed by another puff and the entrance kept closed for ten minutes.

Those of you who commenced with black bees as we did, will remember how proud and pleased you were when the first young Italian workers came out for their play spell.

One of the old Greek myths tells how Aristaeus, the shepherd, son of Phoebus and Cyrene, lost all his bees through want and sickness. Thoroughly disheartened, he visits Cyrene, his mother, in her river palace and tells her his troubles. She counsels him to go to the seer Proteus for advice and herself accompanies him. Proteus tells him that the loss of his bees is a sign of the god's displeasure because of a wrong done to Orpheus in his lifetime. Cyrene shows him a way to propitiate Orpheus and a two years' old steer was sacrifice of unblemished cattle in a shady grove. Nine days later he sends death gifts to Orpheus and revisits the grove with a heifer calf for further sacrifice. To his great joy, in token of the acceptance of his offerings, clusters of bees are hanging from the branches.

From this root, with perhaps some debt to Samson's riddle, grew a belief and practice of ancient times whereby a man might make a fresh start if he had been so unfortunate as to lose all his bees. Early in the spring he was to seek out a little secluded bower among the trees and vines and roof and wall it in, leaving open windows to the east, west, north and south. In this sylvan temple, a two years' old steel was sacrificed and strewn with sweet herbs. In a certain number of days, bees would swarm through the windows and cluster on the trees.

## Who Should Keep Bees

in Manitoba we have a large number of men and women who are successful beekeepers and there is room for many more, as it would be hard to find a place where a few colonies of bees would not yield a fair honey crop during an average year. Every farm could have a few hives and thus obtain one of the most delicious and healthy foods at a very small cost.

Professional men, merchants, tradesmen, poultrymen and market gardeners, whether situated in a small town or in the city, can keep bees with profit and pleasure.

#### 23 82 2222 23 A Live Stock Markets Policy U 23 3

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Following the announcement which recently appeared in the press, announcing that the Hon. Mr. Burrell had initiated a comprehensive markets propaganda in the Live Stock Branch of his Department, an explanation respecting the details of that policy will be of interest. The scheme involves-

1. The Organization of an Intelligence System which shall provide for-

#### (a) Statistics of Animal Population and of Production-

Co-operation with the Census Branch of the Department of Trade and Commerce, and with the Provincial Departments of Agriculture in the collection and analysis of statistics of animal population. Gathering current data as to the exact situation in the country respecting breeding and feeding operations, the supply of feed, the condition of stock, when heavy marketing may be expected, the districts from which the largest supplies may be available and the districts in which a shortage exists.

#### (b) Information regarding the Home Market-

The collection of definite and reliable information regarding market demand in the several provinces of the Dominion, with particular reference to current prices in the leading market centres, and to conditions governing inter-provincial trade in meats and other live stock products.

#### (c) Information regarding the Foreign Market-

Through agents of the Branch. through the foreign service of the Department of Trade and Commerce, and from such other sources as are available, the gathering of adequate statistics and data to make possible an intelligent interpretation of trade conditions in foreign countries, exporting and importing, with the view of assisting our live stock interests to develop foreign trade, to adjust their operations to the requirement of foreign demand and to take advantage of such outlets as may from time to time appear for the profitable sale of live stock products.

#### (d) Distributing Information to the Producers-

The dissemination of this information to the producers in such an effective way that they may be able intelligently to anticipate market demands, to



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Page 27



Gutta Percha and Rubber Limited, NOT IN ANY TRUST OR COMBINE Winnipeg, Fort William, Regina, Saskatoon and Calgary

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aze opportune periods for the rofitable disposal of their tock, to adjust successfully heir operations to the trade ituation as developed by local nd foreign requirements, and o equalize production in the everal provinces, thus providng against the alternate gluts and shortages which have, in he past, invariably tended to pset trade balances and defeat he expectations of the breed-

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The Organization of Farmfor Co-operative Action in the e of

## Their Eggs and Poultry-

the successful demonstration given in Prince Edward Island of the co-operative sale of eggs uggests the need and wisdom f extending the system now in peration to all the provinces of anada, and of its further elaboration as required by varying local conditions, and in the development of inter-provincial and foreign trade.

## Their Wool-

The policy to be pursued in this work must closely adhere to the principles followed during the past year, but it is hoped that means may be devised which shall secure to the growers the commercial advantages of deferred sale when the market

warrants the holding of the product.

## (c) Their Lambs, Hogs and Cattle-

It is proposed to initiate the cooperative sale of live stock in accordance with the principles followed in the work already undertaken.

Note.--- It should be made clear that in the prosecution of this programme it is not expected or intended to involve the Department in any commercial obligation, the farmers' associations, as a matter of deliberate policy, assuming full and complete responsibility in the transaction of their own business and, ultimately, in the executive administration of their own organization.

3. The Promotion of Sale by Grade and Payment according to Quality.

It is widely recognized that the sale of produce on a flat rate basis, for example in the case of hogs, invariably inflicts a penalty on the progressive farmer, and in effect provides a premium for low grade goods. Evidence is not wanting that a well directed effort by the Department would favorably influence buyers and merchants toward an acceptance of standards and the rating of prices on a basis of market merit. It is the ex-

movement in this direction is fundamental to any advance which may be made in improving quality and in increasing production. 4. The Co-operation of all In-

perience of the Branch that a

terests in the Development of our Live Stock Trade.

Under a Markets Policy, the Department may usefully endeavor to have itself recognized as a medium for the adjustment of differences between the producer, on the one hand, and the packing, transportation and financial interests on the other. and an organization through which co-operation may be effected by these great industrial bodies in building up Canada's agricultural trade.

The Markets Policy of the Live Stock Branch, operated in accordance with the foregoing outline, will be administered under the immediate direction of Mr. H. S. Arkell, Asst. Live Stock Commissioner. The present organization of the Branch will be made use of to the fullest extent, the work being carried on through the chiefs of the several divisions, the cattle, sheep and swine, and poultry propaganda falling to the charge respectively of Mr. R. S. Hamer, Mr. T. R. Arkell, and Mr. W. A. Brown.



Automobiles, motor boats, Automobiles, motor boats, trucks equipped with new Made-in-Canada Lesgass Device give three to five additional miles per galon; cnables Fords and all other cars to creep along at less than five miles an hour on high grar. The Lesgass Device gives any gasoline traffice greatly increased rewer-from 10 to 100 per cent on aw and medium speeds. Makes the noisest engine comparatively silent.

## Installed by Anyone in Ten Minutes

The Lesgas Device is simply inserted in the intake pipe. Once in place it never re-quires any attention, and, besides paying for itself each month in gasoline saved, and general engine efficiency, will last longer than the engine.

#### Absolutely Guaranteed

Absolutely of all entropy of the second seco

North American Míg.Co. 905 Somerset Blk., Winnipeg, Man. Agents wanted everywhere for this High-class Proposition

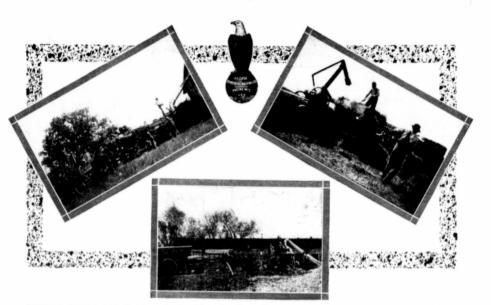


The Canadian Thresherman and Farmer

August,

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## Husking, Shredding, Shelling and Baling

THERE is no time to waste for the busy farmers. Soon you will be baling hay, husking, shredding or shelling corn. If that's the case **now** is the time to get your Case Baling Press, Husker Shredder or Corn Sheller. You might just as well do your job right while you're doing it. That of course means do it with Case Machinery. Keep your tractor busy. It will save you real money.

Speaking of Baling Presses, one of our Colorado users says, "It's not a question of how much a Case Baler will handle but how much you can get to it and take away from it" The Case is solidly constructed and with its large feed openings, it is a machine you need—one you should have on **your** farm.

The Case Husker Shredder is a revenue producer for the man with the power outfit. The snapping rolls can be turned to suit the kind of corn husked. The husking rolls do not in any way destroy the ears of corn. Besides like all Case Machinery it contains the element of safety. The operator stands five feet from the snapping rolls. The husker assisters make it unnecessary for the operator to reach in to clear rolls of clogged ears. You should demand all these things when thinking about Shredders.

Here again in the Case Corn Sheller is an opportunity to keep your tractor—your power plant—going in an otherwise idle season. Add to your yearly income by doing this work for your neighbors. With Case Products your profits swell.

For seventy-two years we've built to give service to busy farmers. Our name is world wide. In buying always bear it in mind. Tell us on a card you want our Catalog and we'll see that it is delivered to your door postpaid.

J. I. CASE T. M. CO., Inc. 741-791 State Street RACINE, WISCONSIN, U. S. A. Canadian Branches: Toronto, Winnipeg, Saskatoon, Regina and Calgary

The Canadian Thiresherman and Farmer

August. '15



22 BB A Beef Cattle Proposition for a 202 23 Half Section Farm By W. H. PETERS, N. Dak. Exp. Statio ES

The great majority of farmers in this state are just beginning to think seriously of introducing cattle onto their farms. Most of them now have but a very few head of cattle or none at all. Again a very large percentage of the farmers in this state have limited amounts of cash at their disposal and must begin in whatever type of stock they take up on a small scale. This means that with any line of stock, especially cattle for the first few years profits will be small because the female progeny must be retained if the size of the herd is to be increased without the expenditure of considerable cash. Any farmer who contemplates introducing stock upon his farm must consider this and look ahead a few years for returns rather than to expect large immediate proceeds.

To the man located in the country at some distance from a railroad, the man with practically no buildings and no money with which to build them, the dairy or dual purpose type of cattle will be found more difficult to establish than a straight beef breed. Any farmer no matter how far from market or how limited his means can start and develop a herd of beef cattle and sell his product to good advantage. His success will depend principally upon his determination to start with a small number and stick to it until he gets a herd large enough to make it worth while. The men who have made money raising livestock in the past have been the determined conservative men who have stayed with it year after year. They have nearly all experienced some sales of stock with little or no profit but they have all found that where profits have been low one year they have nearly all made up for it by larger profits the next. Some farmers, it is probably safe to say, have lost money in the past raising or fattening stock. Almost invariably, however, these have been the "plungers," those who have had their farms overstocked one year and then would be completely

sold out the next. Almost invariably these men are of a type who are always buying stock when the price is going up and selling when the price is going down. The experience of a great many farmers throughout the United States leads to the belief that especially in the Northwest at present the type of farm that is proving the most profitable is the farm from which about one-half of the income each year is derived from the sale of crops and one half of the income from the sale of stock or stock products. If this is true it should be the desire of every present day exclusive grain farmer in the Northwest to transform his grain farm into a mixed farm as rapidly as possible. Few men, however, have either the means or ability to transform a grain farm into a stock farm in one year nor would this method be considered advisable or likely to prove profitable. On the other hand when one undertakes to introduce livestock production into his system of farming he must have an object in view, a definite aim or goal to work toward.

Taking the average half section farm as the unit and beef cattle as the type of animals to be raised several questions present themselves. First, what crops and what system of cropping should be planned to supply the most suitable feeds. Second, what buildings and fences will be necessary. Third, how many cattle will a half section farm support. Fourth, how may the produce be sold to the best advantage. To attempt an answer to the last question first, the disposal of produce will depend upon the type and quality of cattle raised. If purebloods have been selected one must sell the calves largely for breeding purposes. They must be pushed along and developed as fully as possible and bulls sold when from one to two years old, while heifers usually sell best at about two years old in calf and at an age to begin producing.



record CROP of CORN you are It will mean MORE MILK at vear? when in former seasons you were short



is the one machine in the field to-day that will extract the last ounce of butter fat at a speed and under conditions of ease and cleanliness that have scarcely been reached-certainly never surpassed by anything else in dairy machinery

THE SEPARATOR of Extreme Simplicity tests, then a modest profit to the manufacturer is added over bare cost of material and construction.

The "Magnet" is made in Canada by Canadian engineers who have The "Magnet" is made in Canada by Canadian engineers who have first of all gained their experience on Canadian dairy farms in all esentials to a separating machine that fits it perfectly and economically to every requir-ment. The result is "The Magnet"—a separator that more than fulfils the last promise made in its name.

We will easily prove what we say by showing you the MAGNET in your own dairy. The design and construction of the machine is what has compelled us to double the output of our factory this year.

The Petrie Mfg. Co. Ltd. Head Office and Factory : HAMILTON, ONT.

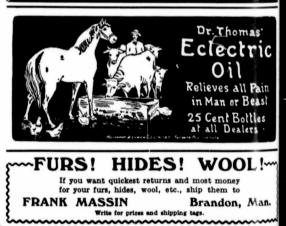
Winnipeg, Calgary, Regina, Vancouver, Montreal, St. John, Edmonton, Lethbridge.

## **Klean Kwick Vacuum** For Hand, Gas Engine Washer or Electric Power

T<sup>O</sup> accomplish best results in washing ▲ clothes, it is necessary to force the water through the fabric. **Klean Kwick** Vacuum Washer does this work perfectly, the air pressure and suction in the stamper accomplishing perfect results, and does not run any harder with the clothes in than with just the water.



Exclusive Selling Agents for Canada Cushman Motor Works of Canada, Ltd. Builders of Light Weight, High Grade Gasoline Engines for all Farm Power Work 286 Princess Street, Winnipeg, Man.



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## ust. 1: August, '15

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The Canadian Thresherman and Farmer

Page 31

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If grade cows are used the proets must be sold for meat or as der cattle. The tendency to related at a young age and condition for slaughter is grow-

and a lowed to remain on the fields upon which they are seeded for a number of years or as long as they continue producing well while the other crops will be worked in rotation.

Either one of two methods may be used in handling and feeding the cattle on a farm as above outlined. The calves may be allowed to nurse the cows either allowing them to nurse twice a day or allow ing them to run with the cows or the cows may be milked and the calves raised on skimmed milk. The first mentioned method is the one most used in producing baby beef. It requires considerably less labor in caring for the cows and calves and produces considerably the best calves. If, on the other hand, the farmer is fortunate in having a herd of high producing cows it will pay to milk the cows if the labor is advisable. In either case one principle is essential to baby beef production, that is, to keep the calves continually gaining and fattening as much as possible from birth to the time they are to be marketed. This can be done very easily where the calves are allowed to nurse but requires very careful and skillful feeding of skimmed milk fed calves. In fact experience indicates that if the cows are milked and the calves raised on skimmed milk the baby beef idea had better be given up and the calves carried until they are at least a year and a half old when they may be sold as stockers or carried still further to two and one half years and sold as feeders or be fattened on the farm and marketed. The latter method requires more pasture and more especially to sections where land rough feed for winter and is suited is plentiful and cheap.

In the production of baby beef it will pay to begin grain feeding the young calves as soon as the cows begin to go down in milk flow in the fall and they must be put in a group by themselves and fed heavily as soon as the grass is gone and winter feeding begins. Alfalfa, corn and barley should be the principal feeds used for the calves on the above farm. The corn may either be put in a silo and fed as silage or fed as dry fodder with the corn on it. Some additional corn may be husked and fed with the barley and the stalks fed to the old cows through the winter. An average grade calf sired by an average pure blood beef bull dropped in March or early April and allowed to nurse its mother through the summer will weigh from 400 to 500 pounds by November 1st. Such a calf



a saw this advertisement in this magazine. Don't forget to say so when writing.

## The Canadian Thresherman and Farmer

August, '1

will require an average of 5 pounds of alfalfa hay, 15 to 20 pounds corn silage, 4 pounds corn fodder and 7 pounds of grain per day for the following six or eight months. Naturally less than this will be required in the beginning and more toward spring for the calves will grow rapidly and increase as well as in their capacity for feed from month to month through the winter. Fed in this way they will weigh seven to eight hundred pounds when fourteen to sixteen months old, and will very nearly always top the during the past few years hmt market when sold. Prices for such calves have ranged from seven to eleven cents per pound during the past five years at America's six leading markets.

The principal requisite to keep in mind in wintering the breeding herd of cows is to simply keep them healthy and in moderate condition which can be done with oats straw, silage or corn fodder and alfalfa hay requiring the use of very little or no grain. The cows should be bred to calve in March or April, so that the calves can be marketed as finished baby beef by the next June or July at the latest. None but a moderately good pure blood beef bull should be used as a sire for the production of baby beef calves.

The above method of handling the beef herd has been introduced on many corn belt farms also on a few farms outside the corn belt and is proving a more profitable method than the old one of raising all calves to the age of two and half or three years. There is every reason why the same practice should prove just as profitable to the farmers of the Northwest.

## Red Polled Cattle. The Ideal Farmer's Cow.

The Canadian Red Polled Association has recently issued a little booklet setting forth the very strong claims this type of animal does offer to the stock-man or mixed farmer who is intent on handling a breed of cattle which will yield him "a good quantity of high quality milk, and whose steer calf will make a profit as a feeder." In other words "milk plus beef."

For the information of farmers, the annual membership fee in this association is \$2.00. Pure bred stock may be shipped at half rates to all points in Canada. The secretary of the association is Mr. George H. Greig, Chambers of Commerce (160 Princess Street), Winnipeg, who will be glad to give every assistance to any farmers interested in the Red Polled. We have much pleasure in

quoting the following passages

from the booklet referred to above and which should be in the hands of every farmer in these days. After giving the history of the herd it continues:

"The rational introduction of some "The rational introduction of some kind of purc-bred or high grade live stock tends to interest the young folks and keep them on the farm. The Canadian Shorthorn Association is preparing to establish an advanced register to en-courage the development of the dairy qualities of that breed. This only goes to show the trend of public opinion in that the breaders of that mounts hered that the breeders of that popular breed that the breeders of that popular breed recognize the demand for a cow possess-ing dual qualities. In the Red Polled cow this dual purpose type of animal already exists, the term "Red Polled" and "dual purpose" being practically synony

For baby feed purposes, the kind of meat required now by an exacting mar-ket, no breed is their superior, for the steers can be fully matured at two and a half years of age.

a half years of age. Under two years old Red Polls have at England's greatest fat stock shows proved superior to all other breeds. In 1909 at Ipswich a Red Polled heifer was placed first in the show, and at Smith-field was reserve female champion. In 1910 at Norwich a steer of this breed won the championship over all breeds breeds won the championship over all and cross-breds; again at Ipswich another championship of the show as well as reserve champion was placed to the credit of the breed.

Slaughter Test. Slaughter tests of steers at International Exposition. at Chicago, years 1906, 1907, 1908, 1909, 1910, 1911, and

Of the 27 head that were sent from the Of the 27 head that were sent from the show to the block in 1906, six were Red Polls. In the yield per cent, dressed weight, to the live weight: Two-year-olds, highest an Angus, 69.5; second, Red Poll, 69.2. Yearlings, highest Red Poll 67.5; second Hereford, 67.1; third Red Poll, 66.8. Dairy Oualities

## Dairy Qualities.

It would not be expected that a breed of cattle, so able to give a good report of itself on the block, would excel in the production of milk, especially in these days of specialization; yet in English herds there are cows with 12-month herds there are cows with 12-month records of 14.189, 14.068, 13.771 and 12.230 pounds of milk, whilst in some large herds an average production of over 9100 pounds is maintained. The percentage of butterfat, as given for all tests made of Red Poll cows, is very high. In a test conducted in England 27 cows gave an average of over five per cent. of anaverage of over five per cent. of why Breed Red Polls?

Because they are unsurpassed as dual-purpose cattle. Because of their ability to profitably turn feed into milk or beef.

Because, not being inbred, they are less liable to tubercular troubles-the

bane of all dairies Because of their high average percentage of butterfat.

Because of their absence of horns and their prepotency in breeding the horns off grade cattle.

Because of their beautiful solid color, kindly disposition and hardy nature. Because they best fill the requirements

of the "farmer's cow."

## 

#### Two of a Kind

A young matron, giving a dinner party, was nervous lest the new cook might not prove equal to the occasion. Going down to the kitchen at the eleventh hour, she exclaimed: "Why, Ellen! If we haven't forgotten all about the entrees!"

"Shure enough we have, mum !" replied Ellen, poising in mid-air a large platter she was wiping. "Ain't we the couple of blunderheaded mutts!"



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DESCRIPTIVE CIRCULAR Free from the Massey-Harris

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- Agencies Everywhere -

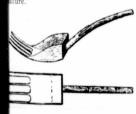
## Watering Device for the Chickens

safety watering device may made from a 5/8-bushel vegle basket made over in the style pictured. Either the bottom is removed and a smaller none substituted or a larger sized circular in the basket to strengthen top hoop is removed and board or hoop is nailed mid-Staves may be given the deed spread to fit any pan by the ition in which the middle ard is placed. Two slats are ught to a point to prevent wls from perching upon this

## 8 8 8

## Shovel and Fork Combined.

The following illustration of an genious but simple contrivance picking up small litter-straw, mure, stable litter, etc.-too rge for the shovel and also too nall to be forked up, is taken m the "Swiss Journal of Agriture.



AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 22 23 Practical Pointers for Farm Hands 23 2 23 (Continued from July issue) 23

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ses. Stop the leaks. Act the part of a man and you'll never want for a place to work at the highest wages, and in a good home where you can get some enjoyment. while you are looking forward to the time when other men will be working for you.

136. Never lead a horse across a double tongue like some hay rakes have. If he should step between, you could not get men enough around him to get his foot out.

137. Have a place in the hay mow to keep the pitchfork. Don't leave it any old place sticking in the hay. You may lose a foot by it.

138. Don't neglect the hay manger. Clean it out clear to the bottom every day. Some horses have their mangers so full of sticks and refuse hay that they get only half a feed. Look at some of the mangers in the neighborhood and see.

139. Keep the crupper clean. Some horses suffer untold agony because dirt has been allowed to gather on the inside of the crupper until it has worn a deep sore underneath the tail. This sore is irritated continually by the pressure of the check rein, which jerks the backstrap at every step. Think of a horse being whipped along on a heavy pull under such

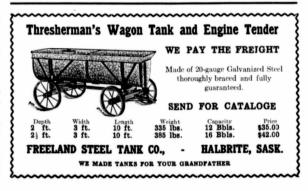
## 135 Help to keep down expen- conditions day after day all the season through.

Edmonton.

140. Don't get into the habit of going out evenings and Sundays without telling where you expect to go. Nothing will arouse suspicion and estrange you from the home so much as this one practice. Besides, if you should meet an accident no one would know where to find you.

141. When you want to quit your job, tell the boss so like a man. Don't sneak away and send him word. Tell him that you have a business matter which you wish to mention to him. Then face him frankly and tell him why you wish to make a change. If it be better wages or better buildings or better board or better horses or nearer town or if you don't feel at home with him any more; if the women folks don't like you or you can court a certain girl more conveniently, or you are afraid you will not get your pay -whatever it is, tell him the reason. If you pass away mysteriously, he can say very little in your behalf to those who inquire. If you leave like a man, he will be very apt to speak well of you no matter what your disputes have been.

142. Don't be afraid to ask for your wages. Not many farmers pay monthly like business men do, because not many hired men want their money until the end of When you need the season. money, just tell him that you wish to draw a little on your account in a few days. If he always has ready money it is not necessary to tell him ahead. Some men do not know how to approach the boss for money and finally become dissatisfied with the place



when the boss has the money in the house all the time, and a few dollars spending money would have made them as jolly as a monkey.

143. Never set a machine in gear while it is in motion. The jerk will often break cogs and chains and other parts. Let the team start while it is already in gear and there will be no jerk.

144. When drilling seed grain, watch the limples in the grain in the seed box. When a grain tube stops up it makes no dimple, and you can easily see which one it is inside the seed box, as all the others will have a dimple, caused by the grain running out below.

145. See that your drag harrow runs straight. If one end gets ahead it throws a lot of teeth in the same track.

146. Don't put axle grease into a hard oil box. It will not feed through and will soon form a thick crust at the bottom and run dry and hot.

147. Never grind a scythe blade on the bottom side. Keep that side as flat as possible to make it take the grass. Look at a new one and see the proper shape. Many a new scythe has been ruined by one grinding on the wrong side.

148. Watch the length of tongue on certain implements. Sometimes on a disc or drill or cultivator the hitch will get so far ahead that the horses on the tongue will bump their knees against the neckyoke half the time. This will happen in a fourhorse team, if the outside horses get too far behind. When you hear the neckvoke rattle you may be sure that some horse's knees get a sharp rap.

149. Don't hit a horse's foot or kick it to make him lift them up or step around. They will not know what you mean. Slap the forearm or hip for that purpose.

150. In setting a post, tamp the first three inches of dirt in the bottom. That is what holds the bottom of the post, and unless that part is solid the post will never be firm no matter how much you tamp the top.

151. When you drive a fence staple into a soft post, always set it a little diagonally. If you set it straight with the grain of the wood, it will make a little split between the points and will not hold.

152 When nailing on boards, always drive the two outside nails fairly near the edge. It is the edge that turns up and makes a crack.

153. Don't take the wheel burrs off a wagon or buggy and lay them on the ground face downward. Whatever dirt or straw sticks to them will get into the wheel when you replace them again.

154. Don't leave the end-gates

out of a wagon box that is sitting around unused. Put them in to hold the box in shape.

155. Don't let sideboards, or any other boards, lie on green grass. The sun will warp them more in an hour than in a whole day where there is no grass.

156. Don't leave the cover off the axle grease. If dust or dirt gets into it, the grease will do more harm than good. Better throw it away.

157. Keep the neckyoke on the front end of the wagon when not in use. A little soil in the end and a little rotting will make the ring come off and then your neckvoke is ruined.

158. If the outer part of a singletree gets much worn by the wheel, turn it end for end before it gets too bad. Wear out both ends instead of one.

159. When a bot fly gets to scaring a horse in front, stop and kill it with your hands by slapping against the horse when the fly alights. No amount of jerking, whipping, swearing and slapbanging will make the bot fly behave any better. Don't forget that.

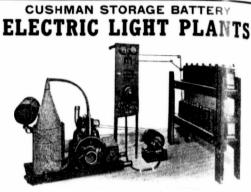
160. You can make a good salve for sore necks and shoulders by wetting some sulphur with all the turpentine it will absorb, and then adding enough fresh (not salty) lard to keep it from being mealy. This will usually cure without resting the Shorten the hames at top horse. or bottom to alter the draft to a different part of the shoulder. Always lower the pull to relieve the neck. The higher the tugs the more they pull down on the neck. The lower the tugs the more they pull on the points of the shoulders. A good rule is to move the tugs farther away from the sore. A small change makes a great difference in the draft. Don't overdo it.

161. If you are not sure what to do, report to the boss. Don't be guilty of experimenting at his expense.

162. Don't carry edged tools so that the edges will touch each other or touch anything that will dull them. Don't haul them loose in a wagon so they can shake against the sides or against any metal. Put them in a pail or roll them in a sack or blanket.

163. Never pass a board or a stick which has a nail sticking up so that a man or a beast can step on it and get hurt. A rusty nail is worse than a dose of poison. Either turn it down or carry it to the scrap pile.

164. Look out for nails in the stall or manger which can possibly get into a horse. They seem to work out of lumber some way, both heads and points, and are responsible for many of the mysterious scars on horses which represent a lot of suffering.



Engine shown in illustration is our 4 h.p. size, throttle governed and equipped with Schebler carburstor, ensuring steady, quiet operation of engine. date engine can be used for we can supply full attentments. CUSHMAN MOTOR WORKS OF CANADA, Limited

Builders of Light Weight, Nigh Grade Gasoline Engines for all farm power work 288 PRINCESS STREET, WINNIPEG, NAT

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EXCLUSIVE SELLING AGENTS FOR: Fanning Mills, Smut and Picking va-vacuum Washing Machines, Lincoln Grinders, Lincoln Saws, Incol Universal Holsts, Automatic Cream Separators, Champion Cream Sepa Portable Grain Elevators, Wagner Hardware Specialties, Mountache-Little Giant Neck Yoke Centers.



#### **E** VERYTHING that you are interested in is worth a picture. On the home place, at your neighbor's, at the picnic, on your fishing or hunting trip-wherever you go there are scenes and incidents that you can preserve for all time with the click of the Kodak shutter.

Ask your dealer or write us for a copy of "The Kodak on the Farm," a beautifully illustrated little book that not only tells about the new things in Kodakery but shows as well, by attractive pictures, the pleasures and the uses of a Kodak on the farm. It is free for the asking.

CANADIAN KODAK CO., LIMITED, 606 KING STREET W. TORONTO, ONT.

## Threshing Machine For Sale

FOR SALE, by private bargain, a Great West Thresher (with 32 in. cylinder, 56 in. body) with a four cylinder Sawyer-Massey 45 horse power Traction Gasoline Engine. In First Class condition only purchased a year ago. Administrators must realize in order W wind up estate. No reasonable offer refused. On view at farm  $W_1$ of section 3, 3, 18, West of 1st., between Ninga and Killarney, Man For full particulars apply to

THE STANDARD TRUSTS COMPANY, Administrators 346 Main Street, WINNIPEG

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165. Don't have a harness peg harp on the end where a horse can knock his head against it. Most blind horses are made blind this way, and how easily it ight have been prevented.

166. Don't have a crack in the all partition large enough for a orse to get his foot in. If one is ade, don't leave the barn until is fixed, or else tie the horse me other place.

167. Don't take the family ewspapers upstairs or out to the am unless you bring them back. Don't borrow what you cannot

168. Get up in the morning hen you are called. It is only habit to be called twice. Good iddance to a man who has to be alled more than once. It is Hish

169. Don't smoke or light atches in the barn or where ere is straw or hay. It is too nch of a risk and you could ver pay the loss.

170. When you are asked to an the stove pipe, do so cheerlly. Don't act as if you are ing too much of a favor. You ay get hurt or get sick and have be taken care of yet. Anyway, ink of the stormy days and reakdowns that gave you hours nd hours of rest in the busy

171. If there is no bathroom, n't hesitate to ask for a wash b and a pail of warm water, hich you may take to your om once a week. It might emmass them to have to ask you use these things, but it will ease them to supply you with ese requisites if you show a sire for them. The hired man ho does not bathe is talked of hind his back, and it would rt his feelings to hear what is

172. Don't play with the chilen or talk nonsense when the ss wants to talk business with m. Face him like a prince and ke vour orders like a soldier. here is some satisfaction in talkg to a man like that. There is a me for jokes, but it is not when e boss has something important sav

To be Concluded in September issue

## The Canadian Thresherman and Farmer

# **The True Test of Tires** Is Driving on Country Roads

Not smooth city boulevards, but rough country roads settle all doubts of which tire is best.

That's why Goodyear Tires have won with the farmers.

For they're built in perfect balance. The All-Weather Tread is made double thick and the "carcass" beneath extra-strong to support it.

And the beauty of Goodyears has made them the favorites on boulevards, too.

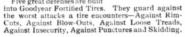
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At first some ran a Goodyear with a rival tire on an opposite wheel. Those early Goodyears, by their

cars in the Dominion. Yet the Goodyears of today excel those earlier ones. For we have added betterments

methods



These five features are all controlled by us-no rival tire has them. They protect against all troubles except mishap and misuse.

#### Prices Reduced 37%

Yet Goodyear Tires cost 37 per cent less today than they did two years ago when we did not make so many.

As our output multiplied, reducing factory cost per tire, we passed on the sav-ing to Goodyear users. We gave a third reduction in spite of the war tax on all our raw material. Some makes cost less be-cause of cheaper methods and materials. Some cost

more because of small out

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WINNIPEG

new price on your size

THE GOODYEAR TIRE & RUBBER CO. OF CANADA, LIMITED ille, Ont. Head Office, To Makers of Truck, Motorcycle, Carriage and Bicycle Tires and Rubber Belts, Hose and Packing

The Goodyear Tire & Rubber Co. of Canada, Limited, has no connection with any other Canadian company using the Goodyear name

MAIN ST. AND BANNATYNE AVE.

War Eagle Now Symbol of Peace 82 and Success Story of "Old Abe" Model for the J. I. Case Trade Mark Recalls Days of Martial Glory. By B. M. PETTIT, J. I. Case Threshing Machine Co

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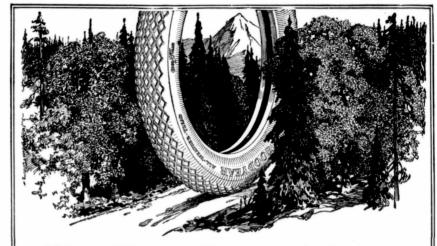
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Nature never rhymes her mark of a great modern manufachildren nor makes two men turing institution. This leader of like, says Ralph Waldo Emerson. his tribe, who never saw any This story concerns a bird and threshing device save a squaw, everal men, of whom there are was the advertising genius who unconsciously was responsible for eally the father of this story, is one of the country's best known chief Sky, a Chippewa Indian, marks of trade-Old Abe-the who is responsible for the trade Case eagle. Every Case car



STEELE & CO., LTD.

#### Page 35



**Top-Place In Four Years** Four years ago we began in a modest way to build rese tires at Bowmanville, Ont. Car owners—many of them farmers—gave Good-ears a trial. At first some ran a Goodyei the opposite wheel. Those ear records, sold the tires of last year-when men bought as many Goodyear Made-In-Canada Tires as there are cars in the Dominion. GOOD YEAR

as fast as our experts found

## **Protect in 5 Ways**

Five great defenses are built

**Fortified Tires** No-Rim-Cut Tires - "On-Air" Cured With All-Weather Treads or Smooth

put. But figured on *cost per mile* Goodyear Tires cost the least, Any dealer can supply you. Ask at once for our

## Thee Canadian Thresherman and Farmer.

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carries a tiny picture of this famous bird

Old Abe, the famous war eagle of Wisconsin, was captured by this chief during sugar making time in 1861 on the Flambeau River, near the division line of Ashland and Price counties. His birth place was a tub-like nest of mud and sticks in a tall pine which was felled by the Chippewas, who were trading down the river under the leadership of this son and successor Thunder of Rees

Chief Sky was a good business man. Under his guidance his people prospered. So it is in order that the eagle, which he captured, was destined to be the emblem of a concern whose products bring prosperity to the people who use them.

While on the road, the young chief sold his precious bird to Daniel McCann, of Evil Point, for a bushel of corn. An old veteran with a bias for oratory thus describes the transaction: "And for this paltry sum was a noble bird sold from freedom to captivity; from barbarism to civilization; from the murmur of the pines to the crash of battle.'

Daniel McCann carried the eagle to Chippewa Falls, where a regiment was just recruiting for the first Wisconsin Battery. The clouds of the Civil War were gathering heavily. Failing to dispose of his bird, he proceeded to Eau Claire and offered the eagle, now full grown and handsome, to what subsequently became Company "C" of the Eighth, or Eagle Regiment. Captain Perkins was very hesitant about accepting the volunteer, but finally agreed to take the austere bird to the front.

The eagle was christened Old Abe in honor of the man whom nature has never rhymed with another. The hearts and minds of all the people were centered on Abraham Lincoln, and it was a reflection of the esteem in which he was held that the eagle was named for him. Old Abe was duly sworn in. Around his neck they placed red, white and blue ribbons, and on his breast a rosette of the same colors. James McGinnis asked the privilege of being Old Abe's keeper. There was no competition for the job. "Jimmy" McGinnis had the McGinnis had the monopoly.

Old Abe was in thirty-six battles. At the sound of the regimental bugle he would draw in his head and bend it gracefully in anticipation of the coming When the squadrons shock. rushed into line he would tremble When the with excitement. crash came he would spring up and spread his pinions, uttering inspiring screams. The intense

excitement of the march and battle, the hurrying and frightened populace, roused all the native fire and inspiration of this military bird. His appearance was at all times magnificent and picturesque. He was in his glory during battle. It was then that his eyes flashed with uncommon lustre. Old Abe enjoyed war. The men of the eagle regiment said that he gave them new courage.

During the engagements he suffered but few slight wounds, and returned home to Madison hale and hearty. In 1880, when the soldiers' reunion, on a vast scale, was being held in Milwaukee, Old Abe attended, being carried in the procession. He was sleek and majestic, a complacent creature of the forest. General Grant and Old Abe were the honored guests of this military reunion. When the band played he uttered his battle scream, consisting of five or six wild trilling notes in quick succession. It was a great day for Old Abe. This was his last public appearance.

In the winter of 1881 a fire started in some old paints and oil stored in the basement of the Wisconsin State Capitol, where Old Abe spent his days. At the scent of the smoke and fire he let loose his battle cry, at first vigorous, but soon weaker and weaker. When the firemen at last reached him the eagle seemed injured by the smoke. His breast heaved. His heart labored heavily. His plumage was disheveled. Thereafter he ate sparingly. His eves lost their wonderful lustre. His strength failed. On March 26, 1881, with a slight tremor, Old Abe expired in the arms of his keeper, George Gillis. It is but ironical, that, like the great Napoleon, Old Abe died out of battle.

Old Abe witnessed the saddest war in history, but to-day he is known and revered throughout the world as a sign of peace and plenty, the sign of industry. Business men know him because every Case machine bears his picture. Over the main door of the Case office is a gigantic bronze of Old Abe.

Old Abe had some striking characteristics, which make him the most individual bird in all history. Homaston, one of his bearers, said that Abe possessed a blending of caution and courage, an indomitable will, a love of the inspiring. Jerome I. Case, founder of the company which bears his name, had many of these characteristics. He was a pioneer with a far-seeing vision of the advance of American civilization. He takes his place in history as one of the great American business men.



-- is what the Hecla Furnace means for you. Its patented, steel-ribbed fire-pot radiates the heat so quickly that more of it is kept in the house and less What Makes goes up the chimney, six tons of coal do the work that would otherwise require seven. Possible Joints The "fused joints", an exclusive "Hecla" feature, forever seal up the openings where gas or dust might escape into the house—they are guaranteed never to leak. Forever Tight "Hecla" Independent gratehecia independent grate-bars save coal and eliminate the poker. The "Hecla's" large circular water pan supplies plenty of moisture to every room. Ease CLAN

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are conveniently secured, safely forwarded, readily cashed and inexpensive. Issued for any sum up to \$50.00, at a cost of from 3c to 15c. Payable at any branch of any chartered bank in cashe by the second Canada, Yukon excepted, and in the principal cities in the United States.

Over 320 branches in Canada.

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Over 210 in the West.

## BRANCHES IN MANITOBA

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The Canadian Thresherman and Farmer-

Page 37

# Big Profits in Potatoes

## No. 334 HOOVER DIGGER

Strength and great capacity characterize this machine.

Equipped with a rear agitating rack and vine separator, which have a backward and forward motion, sift all dirt and rid the notatoes of all vines. For the farmer who raises a small potato crop, this digger is suitable and can be obtained for a small outlay.

POTATO

It has a flat blade with side wings, which guide the potatoes on to the grate. The grate is hinged at the front and is given an up and down motion by a sprocket wheel at the rear. This action shakes off the dirt and tubers from the potatoes. Being equipped with forecarriage insures steady running.

Get our booklet on potato diggers before digging time and find out about the best line of potato diggers on the market WHY BUY A SECOND RATE MACHINE? THE BEST IS THE CHEAPEST IN THE LONG RUN

THE BEST CAN ONLY BE GOT THROUGH A JOHN DEERE DEALER

John Deere Plow Co. Limited, WINNIPEG, REGINA, SASKATOON CALGARY, LETHBRIDGE, EDMONTON

#### A Bulletin on Swine Raising

The second edition of Bulletin 17 of the Federal Live Stock anch, entitled Swine Husbanin Canada, has been issued. may be had on application to Publications Branch of the partment of Agriculture at tawa. The interest in swine ing, stimulated, no doubt, by high values of pork products. de such a demand for informaon this subject that the first tion printed last year was ickly exhausted. This edition ags up to date statistics with pect to pedigree registration the trade in hog products. It hown that the total exports for fiscal year ending March 31, 15, amounted to 166,048,519 lbs., against 27,561,140 lbs. the preus year. This bulletin covers

he whole field of swine raising, ming the results of official exeriments as well as the practices funces/stul farmer swine raisers. In interesting section describes the system to feeding hogs in Demark, where combinations of load are prepared according to her food units in which one ound of grain, wheat, barley, Gas, Corn, etc.; constitutes one fod unit which is equal to 8 lbs. I mangels, 4 lbs. of boiled potates, 5 lbs. of alfalfa, 6 lbs. of skim fik or 12 lbs, of whey. It is

shown that the diet is varied in a definite way for pigs of different ages.

#### Protecting Stock from Flies

During the summer months, when cattle are most likely to be bothered with flies, there are many people who wish to know what can be done as a preventa-There are a number of tive. methods sometimes recommended for this purpose, some of which are supposed to keep flies off the animal by virtue of their bad odor or greasy nature, and some which are supposed to be sprayed on to kill the flies. Considerable doubt exists as to the benefits to be obtained from using any of these treatments, or as to the relative value of the different ways of combating flies.

For spraying the backs of cattle at milking time, there is possibly nothing more reliable than kerosene emulsion. The following recipe given by the United States Department of Agriculture is one of the best ways of making this: Dissolve one-half pound hard soap in one gallon of hot water, and while still at near boiling point, add two gallons kerosene, and emulsify by use of a force pump or agitator of some kind. Dilute with water, one part emulsion to eight parts water, and use a spray, dip or wash.

Few Weed Seed Live Five Years

DEERE

In a recent experiment seeds of French weed, Green foxtail, Kinghead, wild mustard, wild buckwheat and wild oats were planted at depths of 1, 2, 3, 5, 7 and 10 inches. The greatest depth from which French weed came up was two inches; Green foxtail, three inches; Kinghead mostly from two and three inches -a few from five inches: wild mustard, three inches; wild buckwheat, three inches; wild oats, a few from five inches. The next year a few French weed came up from the one and two-inch depth -no Green foxtail-a few Kinghead from the one to five-inch depth-no wild mustard or wild buckwheat-and a few wild oats from the two-inch depth.

In five years the seeds were dug up. None of the seeds at the one and two-inch depth were left. A few of the French weed seed at the seven and ten-inch depth grew. Of the Green foxtail, one seed from the five-inch depth grew. Of the wild mustard, a few of the seeds from the ten-inch depth grew. Of the wild mustard, a few of the three-inch depth and nearly half of those buried ten inches grew and one-quarter of those from the seven-inch depth. All of the wild oats and wild buckwheat were dead.

DIGGER

Pace, Harrison & Millar, Ltd. Winnipeg INSURANCE LIVE STOCK Fire Accident Sickness Autor nobile Plate Glass Liability Bonds Tornado WRITE FOR AGENCY Pace, Harrison & Millar Ltd. General Agents, Winnipeg

#### The Canadian Theresherman and Farmer

15 August.



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The long continued wet weather across the winter wheat belt in the United States greatly retarded shipments to fill July commitments made in Chicago, causing scarcity of old crop for quick shipment and bringing a rapid rise in our July option, after a sensational decline which was forced by foreign selling. So slight has been the movement of new crop winter wheat that it is feared in shipping circles that there will be severe congestion, the bulk of winter wheat being still to move when there is an exceedingly great demand for space for spring wheat shipments. This is the greatest bear factor in sight unless one believes that the Dardanelles will be forced in the next few weeks. Our War Office issues no surmises, although military critics a week ago stated that Constantinople would likely be taken within a month. The opening of the straits would enable Russia to pour out vast quantities of new wheat, her crop being particularly good this season. Shipments via Archangel have been almost negligible, the port and railways leading thereto being badly congested with war supplies.

There remains a good demand for cash wheat which will likely continue until September as the visible stocks everywhere are greatly depleted.

For the purposes of comparison, the size of the last two crops is interesting. Inspections at July 31st the last two years has been as follows: Wheat, 1914-5 106,-716.375 bus., 1913-4 154.397.850 bus.; oats, 1914-5 35,309,600 bus., 1913-4 66,391,6550 bus.; barley, 1914-5 4,842,500 bus., 1913-4 15,-562,800 bus.; flax, 1914-5 3,966,750 bus., 1913-4 13,994,200 bus.

From the foregoing it will be noticed that the crop of 1914-5 was a relatively small one but all indications point to our growing crop considerably exceeding the crop of 1913-4. Italy reports a small crop, which will have to be heavily supplemented by imports from America. Germany and Austria alone report crops above the average in central and western Europe, but it is likely they are endeavoring to deceive the Allies. Great Britain will have a crop ten to fifteen per cent less than that of last year according to present indications.

The American spring wheat crop is excellent, although a little There are various reports late. of black rust from some districts in Minnesota and South Dakota, but the cool nights and hot, bright days have prevented this spreading. Altogether, Expert Snow may not be amiss in his estimate of 995,000,000 bushels for winter and spring wheat crops in the United States. Our own Western wheat crop is the heaviest in years although in some districts quite late but given reasonable weather until September 5th, a huge crop of high grade wheat will be reaped, even though some districts suffered from frosts and some have already suffered severely from hail-there will be the yield in bushels, and with present high prices for all grades, the West may confidently count upon the best paying crop, by far, in her history. A wealthy farmer who can store his grain at home until mid-winter or later, will probably get a much better price and it would be a patriotic move on his part and so prevent glutting.

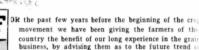
As usual, the early bird will again catch the worm this year, and the man who can get out his barley and wheat early will likely get by far the best price prevailing until mid-winter. Stocks of old wheat in the hands of farmers are almost nil, while country elevators have very small stocks too.

With every prospect of this terrible war continuing throughout another winter and with damage from drought in most European countries, aside from Russia, Canada may confidently expect Europe to take our surplus as rapidly as transportation will permit this fall, but it is most unlikely that ocean tonnage, now greatly depleted by withdrawals from service and loss from submarines, can keep up with rail movements to our lake terminals. Present statistics indicate a world's wheat crop of ten per cent greater than last year.

#### Coarse Grains

Kept strong by the demand for military purposes, our July oats held firm with a strong tendency toward the end of the month while October oats have sold from 41c. to 42c. The oat crop is generally good but in many places rather late, and warm, bright

## Important Information to the Farmers of Western Canada



movement we have been giving the farmers of this country the benefit of our long experience in the grain business, by advising them as to the future trend of values, and in the rapid increase of our consignment from the country we can see that our good advice is fully

appreciated. e have been studying the flax situation and believe it worth of a special letter before issuing our regular wheat circular The increased acreage of both wheat and oats in the Canadian Northwest has decreased the flax acreage to such an extent that the small amount available this year will all be wanted, in our opinion, at much higher prices, and we would earnestly advise those who have flax to hold it and sell out everything else first, and then if you must sell your flax buy the option back in place of the cash stuff. We expect to see this com-modity sell at \$2.50 and possibly \$3.00. You will remember back in place of the cash stuff. We expect to see this commodity sell at \$2.50 and possibly \$3.00. You will remember a short time ago when October flax was selling at \$1.85 per bushel, the papers were all running ads. advising farmers to sow flax. This advice was apparently ignored when we look at the small flax acreage. The farmers the last few years have been forced to let their flax go at a loss on account of "poor demand" by crushers when the farmers had it for sale. We are taking this opportunity therefore to advise farmers who are fortunate to have flax to hold it for at least \$2.50F.O.B. Fort William or Port Arthur. This means in the neighborhood of \$1,000 to \$1,500 per car extra, and you cannot alford to lose this or even part of it. Don't sell a bushel at low prices, it is far too valuable to sacrifice. If you have any of last year's oats and wheat, rush shipment and get it sold before the new crop comes on the market. Write us for any information you may want. Watch our advertisements for market pointers, they will mean money to you.

NOTE—Any farmers who want to hold their grain we will give them big advances on each car.

MCBEAN BROS.

600 GRAIN EXCHANGE

WINNIPEG, MAN.



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weather is needed. Cash oats will filely continue strong for some time to come and farmers having old oats on hand, should market same directly. Oats may pick up some strength this fall if the corn rop does not vastly improve as greatly decreased yield of corn in the United States.

New barley will likely be in god demand for the first month or six weeks, but the crop is fairly arge and those who intend to market barley this fall, cannot act op quickly after they have the barley in the shock, as contracts for future delivery can easily be

#### Flax

There has been a marked depreciation in this seed due to the far of war between Germany and he United States, also to cheaper Argentine offerings, permitting Argentine flax to be brought into he United States and under-sell aurs. Yet the flax crop in both Enited States and Canada is comparatively light and the acreage small.

#### Humus

1. Humus is decaying vegetable matter in the soil.

2. It is the storehouse of nitroen, most expensive and the most ecessary of all plant foods.

3. It contains the food upon which the soil organisms live, whose function is to convert oranic nitrogen into nitrates in orler to be available for the use of blants. It also materially assists a decomposing the mineral contituents of the soil, such as poash and phosphoric acid, making hem available for the use of lants.

4. It increases the power of he soil to hold water without beoming waterlogged.

5. It makes clay soil more pen and friable. It also serves occupact sandy soil and increase is droughtresisting power.

6. It prevents washing to a reat extent, thereby diminishing beloss of fertility by that cause. 7. Soil filled with humus more adily admits the air so necessary o all useful plant growth.

8. There appears to be a distinct relationship between the amount of humus in the soil and the amount of available nitrogen therein. It has also been observed that as humus disappears from the soil there is a distinct reduction of the ability of that soil to grow crops. Hence in practice in order to obtain the best trops we have to resort to barnyard manure and the turning under of vegetable matter rather than the use of concentrated ferlilizers.

#### The Canadian Thresherman and Farmer

Page 39

# For the Hardest Service use "RED WING" Thresher Belts



THE foundation of "RED WING" Thresher Belts is a heavy cotton duck of four layers, which are strongly stitched together. The whole is then thoroughly impregnated with oil, making a belt of remarkable strength, toughness and durability.

The fabric itself, and the coarse stitching, gives the "RED WING" Belt a splendid grip on the pulleys, and enable it to deliver a very high percentage of power, with a minimum of slip.

Thorough tests throughout the West have shown that "RED WING" Thresher Belts will stand up under service which is too severe for either leather or rubber belting. They have also proved very satisfactory for such

places as brick yards, cement plants and lumber mills, as well as for threshing.

"RED WING" Thresher Belts are made in Canada, and the name "RED WING" is stencilled on every belt, so that you may be sure of getting the real article.



You saw this advertisement in this magazine. Don't forget to say so when writing.



Let us see. To the man who supposes that it is a method of growing abundant crops on a rainless desert, I want to explain that "dry" farming is just another term for the most modern, up-todate, intensive, scientific, brainy farming known.

Here are Ten Commandments for the Dry-Farmer, and we'll enlarge same, commandment by commandment. Dr. Palmer, of the North Dakota Agricultural College, formulated these commandments, and they will stand memorizing even if they were written.

1. Thou shalt plow deeply. To explain why deep plowing, 10 to 12 inches, is preferable to the three and four-inch kind would seemingly be a waste of time, but it opens the soil to the rain, prevents a run-off, gives more feeding.

2. Thou shalt keep the surface soil loose and level and lower soil compact. You prevent evaporation, and if you harrow your growing grain it will keep the surface loose. Keep down the weeds. Avoid ridges on your plowed land.

3. Thou shalt add organic matter to the soil. It holds moisture, furnishes plant food, keeps soil in good condition, helps make plant food available, lessens drifting and washing. Use stable manure, growing grass and legumes, and plow under green weeds.

4. Thou shalt summer-fallow when rainfall is less than fifteen



#### Washes Anything and Everything

From a horse blanket or overalls to the finest laces without injury. Washes a full tub of clothese perfectly in three minutes. Not only washes but rinses and blues. The ORIGINAL and only perfect vacuum washer

Agents Wanted UNITED MANUFACTURERS Galt Bidg. Winnipeg MONEY BACK GUARANTEE

#### The Canadian Thiresherman and Farmer.

inches It saves two years of rain for a single crop.

5. Thou shalt grow corn or a cultivated crop every two to five years. It saves moisture, kills weeds and plant diseases, and is the best preparation for a grain crop, and furnishes stock food. Do not hill your corn.

6. Thou shalt grow clover, alfalfa or some legume every few years. They add fertilizer and organic matter, kill weeds, produce valuable hay and valuable seed crops.

7. Thou shalt grow early maturing crops. In the early summer, growing conditions are better

8. Thou shalt keep down the weeds. Weeds waste moisture. 300 to 1,000 pounds of water to every pound of dry weed; waste plant food crowd the plants, shade the crops, retard growth and interfere with the working of the soil

9 Thou shalt keep stock. Grain produce, sold in the form of stock, returns the most money. Stock on the farm means humus, fertility and prosperity generally. Nothing pays so well as dairying.

10. Thou shalt plant trees. They retard wind, prevent drifting, lessen evaporation, increase yield, temper hot winds, harbor insect destroying birds, furnish fuel and fenceposts; shelter stock, garden and fruit trees, and the less weeds on a farm the better the tree growth.

There is no farm heresy in any of the above, all tending tow rd better farming. Even do the e rules as to cultivation, etc., apply to the one who employs irrigation. A little or a good deal less irrigation and much more cultivation is a desirable condition to bring about.

#### Handling the Manure Crop (By a Farmer)

With all our great farm papers and our agricultural experiment stations there are still some men who persist in hauling the manure to the fields and distributing it in small piles, going at a later time to spread it.

It seems strange that in this advanced age that any man should do the like. Common sense should teach him to do differently if he never looked at a paper or heard of an experiment station. Or he might watch the effect of this mode of distribution on his own fields, and then compare it with the up-to-date methods of his neighbor. This belated man's way was the old way, and how the way ever got started and became prevalent is more than the The writer can understand. rains come and wash out all the best fertilizing qualities into the ground at that particular spot,

while the great amount of acreage will be unfed with the fertility.

If you have a neighbor who does this way, have a reasonable conversation with him on the matter, and see if something can't be done to enlighten him in the way of modern agricultural methods. Of course, there are not many of these men left, but at least a knowledge of one man of the kind.

We are among that class of men who know that the sooner the manure can be taken to the field after it is made, the greater will be the good therefrom. We have men in mind who have their barns arranged in such a way that the spreader (we say spreader, for that is the only way), can be taken inside of the building, the animal fertilizer thrown into the bed of the machine and then hauled to the field and spread evenly and not too heavily in the places where it is most needed. It has been said that the manure on the farm is the best paying crop the farmer has, and it must be true. Being so valuable a one let us not waste one bit of it any more than we would waste the corn in the crib. Let us keep all the stock that we can in order to get all the good for our land that we can, and then let us spread this valuable product on the farm as carefully as possible in the way that will do the most good, and if it happens that in your neighborhood there is a back number farmer who goes about putting the manure in piles in around the barn to wait for some future time of distribution, speak to him in a kindly way and see if you can't teach him otherwise. Perhaps he is wiser than he seems, and a word to the wise is sufficient.

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#### Practical Talks to Threshermen Continued from page 22

perfected a somewhat different process and applied for patents in the name of the People of the United States. These two processes, which are said to be inexpensive, make it possible to transform practically all of the crude oil into gasoline.

In view of these discoveries it is not likely that we shall hear of any shortage of gasoline until there is an actual shortage of crude oil. Neither is there any strong probability that the efforts to devise means for carburetting the heavier oils will be continued except for engines of very large power. Tractors will either use gasoline or kerosene. The smaller machines will undoubtely use the former and the use of kerosene will be restricted to the large units.

**Twelve Months of this** Magazine for One Dollar



season. In addition to the above mentioned fruits we are prepared to give you prices on request on any kind of fruit you want and which can be procured.

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Our price list explains fully how our fruit is handled direct to the consumer and we already have hundredof satisfied customers who tell us they never before purchased fruit of such good quality and low price. We guarantee delivery of our fruit in good order.

CONSUMERS SUPPLY CO. Canada Winnipeg



#### DRCING THE PULLETS ters in Selecting and Caring r Hens That Are to be the Winter Layers

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the aights become cool, the pullets that are expected to keep the egg basket full inter, should be forced for at is in them. It is not adto have pullets begin to efore the first of October. pullets that start to lay before this, will moult, and ter will be little better as producers than old hens. in the writer's poultry exce, he had a bunch of ary-hatched pullets that got ig in August. The pullets dozen or so eggs each, and started to moult. They did art laying again until about mas. The March and Aprild pullets did not get to laytil October, but they laid ll winter.

y hatching, of course, is ad-, but it should be borne in that pullets that begin to warm weather, are little than old hens. March and hatched chicks, when grown ordinary farm conditions,

should be laying by October, or early November, at the latest. The larger breeds, such as Plymouth Rocks, Rhode Island Reds, etc., ordinarily require six months to reach laying maturity. The smaller breeds will usually begin to lay when five or five and a half months old, and for this reason should not be hatched as early as larger breeds. The writer had pullets in his flock which did this. but in every case, it was noticed that the pullet that started to lay when but four months old, proved to be a very poor layer and never attained the size of those that started to lay when six months old or older. Early laying retards growth. Whenever pullets show indications of laying much before the show season, change their quarters and cut down their food allowance, with the object of retarding egg development. In like manner, the farmer should retard the development of pullets that show promise of beginning to lay in warm weather.

But when the days begin to grow cool, one may safely, and

should, force the pullets to their utmost. Eggs in October and November always bring a fancy price, and an egg laid at this time is worth two laid in the spring of the year. The pullets that are sufficiently developed to lay by early October, should be penned in comfortable, clean quarters, and fed foods especially rich in protein. They will develop much more rapidly if penned than if allowed the freedom of the place, provided, of course, that they are given an abundance of green food. grit, shell, clean water and foods rich in animal protein. Green cut bone, beef scrap or skim milk should be fed more liberally to the pullets than to the old stock, for the reason that the pullets are not fully developed, and the food must not only form eggs, but must also make bone and muscle. The pullets should be made to scratch in deep litter for all their whole grain.

Millions of dollars are squandered every year through the feeding of late-hatched chickens, The pullets that do not begin to lay before cold weather, will rarely lay before spring, and are kept at a loss, since the eggs laid in the spring will not return sufficient profit to pay for the food they consumed during the fall and winter. The late-hatched, small and undeveloped pullets should be marketed as soon as one is certain that they cannot reach laying maturity before cold weather.

# Buy It Now!

Be an enthusiast in the "Buy-it-now" movement. Every dollar spent just now will have a far-reaching effect. Don't postpone that order,

Mail us an enquiry about anything you need printed or lithographed, and by getting the order placed help to hurry the return of prosperity.

Stovel Company Limited Printers and Lithographers Winnipeg, Man.

THE CANADIAN THRESHERMAN AND FARMER

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Girls' Cozy Corner and Canadian Boys' Camp

#### The Unreasonable Pa

My pa, he didn't go downtown Last evening after tea, But got a book an' settled down

ut got a book an' settled down As comfy as could be. Il tell you I was offul glad To have my pa about, o answer all the things I had

To en tryin' to find out B

An' so I asked him why the world Is round instead of square; n' why the piggies' tails are curled, An' why fish don't breathe air. An' An

n' why the moon don't hit a star, n' why the dark is black; nd just how many birds there are, An' will the wind come back? And just An' wi

An' why does water stay in wells? An' why do June bugs hum? An' what's the roar I hear in shells? An' why ne will Christmas come? An' why the grass is always green, Instead of sometimes blue? An' why a bean will grow a bean An why a bean will grow a bean An not an apple too?

An' why a horse can't learn to moo, An' why a cow can't neigh; An' do the fairies live on dew?

An what makes hair grow gray

i' then my pa got up—an'. The offul words he said. An '. Ge

I hadn't done a thing, but he Just sent me off to bed.

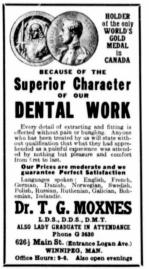
#### A Spelling Match

A Spening Match Ten little children standing in a line, "F-u-l-y, fully," then there were nine

Nine puzzled faces, fearful of their fate, "C-i-l-ly, silly," then there were eight.

Eight pairs of blue eyes, bright as stars

of heaven. "B-u-s-s-y, busy," then there were seven.



Seven grave heads nodding, in an awful

fix, "L-a-i-d-y, lady," then there were six. Six eager darlings, determined each to

strive "D-u-t-i-e, duty," then there were five.

Five hearts so anxious, beating more and m .c.o.l.l.a.r, scholar," then there were four

Four mouths like rosebuds on a rose

tree, "M-e-r-y, merry," then there were three

Three pairs of pink ears, listening keen and true,

"O-n-l-e-y, only," then there were two. One head of yellow hair, bright in the

sun, "H-e-r-o, hero," and the spelling match

was won! -New Orleans Picavune.

#### Dear Boys and Girls-

This is vacation time, and let us have one month together. I hope you all feel acquainted.

First-How many can describe the flags of different nations? Just now should be familiar with the flags of

nations. To the boy who sends in a description of the most flags I will send a dollar. This offer is alies to girls. Second-Boys and girls are cultivating gardens this year. I will send a dollar to the boy who sends in the best descrip-tion of his garden. The same prize is open to girls. Third-How many have a camera? It may be that on you, place or near by.

Third-How many have a camera? It may be that on your place or near by, there is some curiosity of nature, a cave, a queerly shaped rock, a picturesque river, or, it maybe, some relic of former days such as an old fort, a monument. Get a good picture of these. Write out

(a) such as an our out, an outment, feet a good picture of these. Write out whatever facts you can ascertain about the photograph and mail it. Or perhaps you have a picture of a field or garden or animal on the farm. For the most interesting photo taken by the sender of the photo I will give as a prize one dollar. This is open to both boys and girls get busy. Let us see who will win. The competition will close 30th September, and the prizes will be sent as soon as the work is published. Send all communication to P.R.H., 983 Grosvenor Avenue, Winnipeg. Let us have a bright and interesting department for next month. Best wishes to all. Cousin Doris.

Cousin Doris

#### Attention Boys and Girls

Does a pigeon drink as does a hen How does a squirrel come down es a squirrel come down a tree head or tail first?

--head or tail mrst; Does a horse rise upon his hind feet or his fore feet first, after lying down; Does a cow rise the same way?

Does a cow rise the same way? How does a cow cut the grass she

eats Which crops the grass closest, a sheep,

cow or a horse? How many toes has a cat? What makes the difference in the track

of a rabbit and a cat?

#### **Clothespin Butterflies**

Take nice, clean clothespins and cover carefully with tinsel paper or gild with gilt paint. Any bright color of tissue paper may be ased for wings. Cut one

pair quite large and gather down the cen-ter. Then cut a smaller piece for top wings and gather as before. Decorate wings with small gilt or tinsel stars pasted on with glue. Place smaller wings on top of large ones and slip all up the slit of the clothespin. Those butterflies make gorgeous and showy decorations and can be used in large halls butterflies make gorgeous and showy decorations and can be used in large halls or school buildings for ornaments on pub-lic occasions. E. H. R.

#### My Best Chum

(By Stuart Taber)

I'm chums with all th' fellers around this end o' town; There's only one among 'em that ever put me down.

I'm fond o' Bill an' Lefty, an' Toots,

an' all th' rest, But that don't make no diff'rence; I like my dog th' best.

He never steals my marbles like other

fellers do, An' when I get a lickin' he allus feels bad too.

An' when we go a-swimmin' he don't throw mud at me,

never hides my jacket inside er hollow tree. An'

I'm friends with all th fellers; they're fine fer playin' ball— But when it comes to chummin', my dog's th' best of all.

#### THE HEART OF THE BRITISH "TOMMIE"

"It is horrible having to leave one's horses; it feels like leaving half oneself behind, and one feels the dual responsibehind, and one research bility all the time." A Cavalry Subaltern.

"I received a first aid outfit all right. and I hope my sisters won't be cross, as I use it for my old horse Peter, who had a nasty wound on his off hind leg.

'Thanks to the ointment he is nearly better. I would not like to lose him, as he is my best chum out here."

Private T. Green Royal Irish Lancers.

"The sad sight is to see refugees fly-ing from their farms and houses. before I go. . . . Found some cows abandoned yesterday and to-day and got them milked, poor things." —Daily Mail, November

The "Animals' Guardian" quotes from letter dated September 18th: "Who but a British officer would stop

"Who but a British officer would stop on a bridge under a tornado of shell fre to put a bullet through a poor horse's head to end its suffering? Colonel — and I rode over the awful Vailly bridge, at the rear of his regiment. The noise of shell fire was so great that we could not hear each other. He stopped, pulled out his revolver, got off and shot a of shell fire was so great that we could not hear each other. He stopped, pulled out his revolver, got off, and shot a horse. Then remounted. At other mo-ments four shells at a time had struck that bridge. Yet whilst his act of mercy was being done, not one came near it; ten seconds later it was white with shell burst. Such is life."

An affecting scene was Belgium after the first Liege. A machine-gun emulator of "Patrasche Flanders immortalized by de la Ramee) the same wounded in the leg at de la Ramee) the Enc face and after the battle returning. The soldier h his arms and the dog was licking the wound in his

Writing from northern Fran extraordinary intelligence the wonderful horses in and vig Beach Thomas thus gives his in

Beech Thomas thus gives his impo-in the "Daily Mail":---If war has no other virtue, it a the friendship of men and horses. Many of these animals know mathematical exact east the propval of one gun from anothe the gun round at the due di ingrained as an instinct at with the regularity of a plou when he turns at the head field. If the driver, less ski in the art, attempts to bring too near its neighbor, the hose the matter into his own hands Olympian disregard of bit or whi will not disobey the regula anyone.

Like Owner, Like Stock An old farmer went to the exhibit a favorite cow, with had high hopes of winning winning t prize. On learning the result his cow had been placed fifth,

knew no bounds, and, rushing im ring, he attacked the judges. "Why is my cow not first? Wat her faults, I'd like to know?"

At this point one of the judge proached him and answered: "Her faults, my good man, are what akin to your own. She law breeding."

Treat a dog like a man, and sa have a noble animal; treat him dog, and you will have a dog. Ne sight of the fact that your dog ore than you do. Proof: He ands your language; you stands stands your lunderstand his.



15 August,

The Canadian Thresherman and Farmer.

Page 43

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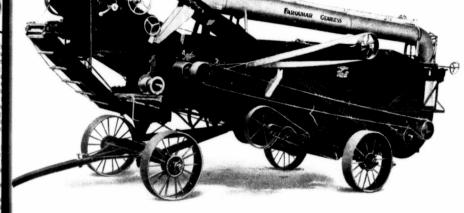
virtue, it and horses nimals ka ss the prop another. due distance net and pe f a plough e headland ess skilfal to bring a r, the hor wn hands bit or whit regulat

Like Stock w, with winning ti ed fifth, h first? W know! of the judg wered: od man. a She la

a dog.



Win



The price of a Farquhar is as low as a putable. Separator can be sold for, and, when you consider the excellent materals used in its construction with its ability, to stand up to the hardest work, you will admit that it is, without exception, the greatest Separator value ever offered.



When the Fairbauks-Morse Oil Tractor and Farquhar Separator get to work. A better threshing combination than this does not exist, it is the ideal outfit.

The Fairbanks-Morse The Fairbanks-Morse Oil Tractor is favorably known all over Canada, and is doing big work in every part of the Domin-ion. In the Farquhar worthy in every way of sharing the Fairbanks-Morse name and guaran-tee.

Morse name and guaran-tee. The Farquhar Separ-tator has justly won the appreciation of Western Farmers and Thresher-man for its simplicity of construction, lightness of draft and great efficiency in all kinds of grain. It is substantially built and stands on extra heavy trucks while the unusual-ty long body makes it a ly long body makes it a great grain saver.

The principles of design which have made the Farquhar so popular are the results of nearly sixty years' experience in Separator building— the Farquhar was one of the first, as it is now the foremost Separator made. made

30-60 H. P. anks-**Oil Trac**driving a x 58in. Far-Separaan outfit qualled for t and Clean

eshing.



Attractive Bargains in **Rebuilt Separators** 

We have a few rebuilt 33in. x 52in. and 36in. x 58in. Farquhar Separators on hand, each machine throughly overhauled and guaranteed, the very thing for the man who is looking for a high class outfit at a modest price. You had better write us to-day—these wont' stay long with us.



Saskatcon

You saw this advertisement in this magazine. Don't forget to say so when writing,



#### Everything Right in End

I want to believe in the happy old way That all will come right in the end some

day. That life will be better and days will be

sweet, roses will carpet the world for men's feet. That

That love and affection and honor and trust

Will lift us from sorrow and shadow and dust.

I want to go toiling with this in my heart.

That every day brings us the joy of a start Fresh with endeavor and duty and truth.

As we swing to our tasks with the vigor of youth,

or youth, Singing the music of love and of cheer Till clouds drift apart and store of uds drift apart and storms disap pear.

I want to go trusting that this will be so As out to the toil and the tumult we go, That hearts will be kinder and life will grow bright the blessing of labor that leads to

With

with the blessing of labor that leads to the light; That troubles, like bubbles, will burst and away. And all will come right in the end some

day. -The Baltimore Sun.

#### A Word of Cheer

Drop a word of cheer and kindness-just a flash, and it is gone: But there's half a hundred ripples circling

on and on and on

on and on and on. Bearing hope and joy and comfort on each splashing, dashing wave, Till you wouldn't believe the volume of the one kind word you gave.

Drop a word of cheer and kindness-in a

Drop a word of cheer and kindness—in a minute you forget; But there's gladness still a-swelling, and there's joy a-circling yet; And you've rolled a wave of comfort whose sweet music can be heard Over miles and miles of water—just by describes a state of the solution of the solution. dropping a kind word.

A Time Tangle Oh. trouble is a thing Which many people borrow, And the flight of Time Gives other folk some sorrow, But it is a fact, my dear, Which to me seems very clear, That To-day will be Yesterday To-morrow

#### Queen Mary

In a recent number of The Saturday Evening Post, Mary Roberts Rinehart writes of her interview with Queen Mary of Ergland. Many of our readers, I pre-sume, have read it, but I feel that they who have not will be glad to know some of the beautiful characteristics of our good queen; these quotations from Mary Rinehart's article will please every British subject: "It has been my privilege to meet and speak with the Queen of England and with the Queen of the Belgians. In each in-stance I carried away with me an inerad-icable impression of this quality—of a

"While he lived he was the Idol of a Whole Brave Nation. And when he died the Little Children Cried in the Streets."



Canada! YPRES: APRIL 22.24, 1915

> A Pretty Hand-colored Handkerchief Holder and Sachet

> > YOU CAN HAVE ONE FOR THE ASKING

Just the thing to keep dainty handkerchiefs in, either at home or when travelling ; they can be laid in the holder in long folds and so absorb the delicate odor of the sachet powder with which the sachet pad is filled.

pad is nued. Six handkerchiefs will go in it nicely; it is 9½ inches long and 3½ inches wide. You can have one of these Sachets FREE OF CHARGE except for a 2 cent stamp to cover postage, if you will send us your name and address. Mention the Canadian Thresherman and Farmer when writing

D. R. DINGWALL LIMITED Jewellers and Silversmiths WINNIPEG, Man Portage and Main St.

grave and wearing respon quietly and simply, of a qui-buries its own griefs and help.

"From the beginning of the u felt a keen interest in the types land. Here was a great queue chosen to be, first of all, a wife us a queen with courage and a como-into her reign had come the tra-world, many of them directly, all indirectly. The war had come-unexpected, unprepared for, England had become a camp, palace in which the royal child housed was open to an attain brutal energy, which added to the fare of this century the others ism. "From the beginning o

"What did she think of it "What did she think of it all she feel when that terrible Rol came in, week by week, that Ro-with its photographs of splend young mached that no Anglo look at without a clutch at What did she think when, one friends of her girlhood put on 1 bereavement and went unas bereavement and went uneau about the good works in which the guiding hand? What thus hers during those anxious days Prince of Wales went to the fr

Frince of wates went to the like any other mother, she to sible moment to be with about arm-in-arm with her be everything but the moment "And when at last I was pe the form of Franking Long

the Queen of England, I unders at least of what she was suffer been to the front. I had seen army in the field. I had been to the very trenches where Prince of Wales was facing th his country and doing it with And I had heard the rumble German guns, as Queen Mary of must hear them in her sleep.

"Even with no son in the field of England would be working for diers. It is a part of the tradius house. But a good mother is a full the world. When Queen May Guild one feels sure that into each direction has gone a little addition derness, because of this boy of hes front.

'it is beacuse of Her Majesty's "it is beacuse of Her Mayesty's in the material well-being of the sol the front, and because of her most a gratitude for America's part in his being, that a took such pleasure in the Queen of England. "At was characteristic of Her M that she and an American a semi-

At was characteristic of Her that she put an American woman nervous American woman – at he once, that she showed that Ame man the various departments Needlework Guild under way, at he the conveyed, in every word deep feeling of friendship for A her assistance to Belgium in t "As she advanced toward us, An

speak cordially to the various are carrying on the work of the her, I had an opportunity to see woman who has suffered so gro "It will be a surprise to many

that the Queen of England is look at. So much emphasi been placed on her virtues, st been placed on her virtues, indis been written of her charm, it at this is only fair to Her Majest. . & perhaps five feet eight needs, we blue eyes and beautiful coloring, a rather wide, humorous meath-not a trace of austerity in her fast single feature. The whole appro-of sincerity and kindliness, ith a trace of humor. Sh ith mor

a trace of humor. "I could quite believe, a ter I Majesty, the delightful story th



had hastily be sl, to his great neen Mary lau

d. Thave seen "Do they see 1 replied th roughly equil supplies req tat one time greneed diffic d. )ne hospit: i twelve th e week last bandage.' Those thing We are d and had not ally unprepare And in the s ne, that speech he answer to m not expected as the men the streets, o to a peacefu var, every m me it has ta into the field here it bek ions of diplo one undenial to accept Queen sp with the C y are rea . 'They a r day. T iA. for day. T of them, c

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member of her own circle, i then, when during some y an absurdity occurred, it y dangerous to eatch the

ary came up the long room. d and held out her hand, each ind curtisied at the sume time, alked, smilling as she spoke, of formality. Near at hand atting who was 'n attendance times listening, sometimes conversation. The talk was s, for these days in England in terms of war. Certain one in; other things had gone a. For the Queen of England the head of a great business, few months has already col-isributed over a million gar-

istributed over a million gar-w, all practical, all of excellent

ssed a desire to have America ast what was being done with that are being constantly sent from Canada and from the

has been wonderful.' she said. doing everything.

dy response of Canada to the adv response of Canach to the or both troops and supplies ap-nave touched Her Majesty. She ength about the troops, the dis-hal come, the fine appearance made, and their popularity with is when they paraded on the London. I had already noticed backing regiment was enter to London.

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Canadian regiment was sure to ers at any time, although London, y speaking, has ceased any but monstration over the soldiers. Have you seen any of the English sitals on the Continent?' the Queen

thave seen a number, Your Majesty.' Do they seem well supplied?' replied that they appeared to be aghly equipped, but that the amount pplies required was terrifying and at one time some of the hospitals had seneed difficulty in securing what they

et. One hospital in Calais,' I said, 're-sd twelve thousand pair of t ed socks ne week last autumn, and could not bardom'. bandage.' Those things happened early in the

We are doing much better

We are doing much better now, and had not expected war. We were y unprepared.' d in the great analysis that is to that speech of the Queen of England answer to many questions. England at expected war. Every roll of the as the men of the new army march theatronts every rendiustrong neares the streets, every readjustment nece he streets, every readjustment neces-o a peaceful people suddenly thrust ar, every month added to the length e it has taken to put England in not the field, shifts the responsibility ere it belongs. Back of all fine as of diplomatic negotiation stands are undeniable fact. To deny it is (to accept it is final. Owen stroke of the lutics even

Queen spoke of the ladies con-tith the Guild. Oueen

th the Guid. "They are giving all their time day. They are splendid. And them, of course, are in great y, by her tact and her simplicity

anner, she had put me at my case greatest people, I have found, have attest people, I have found, have ality of simplicity. When she of the anxieites of her ladies, I that I could have conveyed to her, many Americans, their sympathy wn anxieties, so keen at that time, dishly borne. But the lady-in-was sneaking. vas speaking:

ling was speaking: Please tell the Queen about your ting with King Albert.<sup>1</sup> So I told all about it. It had been un-retional, and the recital amused Her poly. It was then that I realized how It was then that I realized how her mouth was, how very blue her eves. I told it all to her, the it insisted on slipping off my lap, Ning's picking them up; the old her gave me to make notes of the on; how I had asked him whether let me know when the interview or whether I ought to get up and finally, when we were stunding ert her eves uld lot finally, when we were standing fore my depar ure, how I had fremembered that I was not to remembered that I was not to ret to His Majesty than six feet, has ily backed away and ex-bis great amusement. rer to his great amusement. In Mary laughed. Then her face

## The Canadian Thresherman and Farmer

Page 45

# **PURITY FLOUR**

## Means full measure of value for your money both in quality and in economy of use.

"More Bread and Better Bread"

#### You saw this advertisement in this magazine. Don't forget to say so when writing,

'It is all so very tragic,' she said. Have you seen the Queen' I replied that the Queen of the Belgians

"I replied that the Queen of the Belgians had received me a few days after my con-versation with the King. "She is very sad,' suid Her Majesty. 'It is a terrible thing for her, especially as she is a Bayarian by birth." "From that to the ever-imminent subject of the war itself was but a step. An Eng-lish officer had recently made a sensational escape from a German prison eamp, and having at last got back to England, had been sent for by the King. With the strange inconsistencies that seem to char-acterize the behavior of the Germans, the man to whom he had surrendered after a man to whom he had surrendered after a gallant defense had treated him rather well. But from that time on his story was one of brutalities and starvation.

"The officer in question had told me his story, and I ventured to refer to it. Her Majesty know it quite well, and there was no mistaking the grief in her voice as she no mistaking the grief in her voice as she commented on it, especially on that part of it which showed discrimination against British, prisoners. Major V—had es-pecially emphasized the lack of food for the private soldiers and the fearful trials of being taken back along the lines of communication, some fifty-two men being locked in one of the small Continental box ones which are built to carry only six locked if one of the sinau Continential box cars which are built to carry only six horses. Many of them were wounded. They were obliged to stand, the floor of the car being inches deep with fifth. For thirty hours they had no water and no air, and for three days and three nights no contact.

and to characterize the statement in America, Your Major V——'s statement in America, Your Majesty,' I

statement in America, Your Majesty, 'I staid. "' I think America should know it', said the Queen. 'It is most injust. German prisoners in England are well cared for. They are well fed, and games and other amusements are provided for them. They even play football' **The Work of the Queen's Guild** "From a close and devoted friend of Queen Mary I obtained other character-istics to add to usy picture: That the Queen is acutely sensitive to pain or distress in others--it hurts her; that she is punctual --and this not because she does not like to keep other people waiting. It is all a part of an over-whelming sense of that re-

sponsibility to others that has its origin in true kindli

true kindliness. "The work of the Queen's Guild is sur-prising in its scope. In a way its a vast clearing house. Supplies come in from every part of the world, from India, Ceylon Java, Alaska, South America, from the most remote places. I saw the record book. I saw that a woman from my home outh and sent eigarettes to the soldiers through the Guild, that Africa had sent fannels. Coming from a land where the sending, as regards Africa, is all the other way. I found this exciting. Indeed, the whole record scenes to show how very agreat war has overcome the barriers of dis-tances. Coming from the barriers of dis-tances and time and language. "From this clearing house in England's

"From this clearing house in England's historic old palace, built so long ago by Good King Hal, these offerings of the world are sent wherever there is need, to Servia, to Egypt, to South and East Africa, to the Belgians. The work was instituted by the Queen the moment war broke out, by the Queen the moment war broke out, and three things are being very carefully insured: That a real want exists, that the clothing reaches its proper destination, and that there shall be no overlapping.

and that there shall be no overlapping. "The result has been most gratifying to the Queen, but it was difficult to get so huge a business—for, as I have already said, it is a business now—under way at the beginning. Demand was insistent. There was no time to organize a system in advance. It had to be worked out in actual practice.

"One of the Queen's ladies-in-waiting wrote in February, apropos of the human element in the work:

"There was a great deal of human ele-ment in the start with its various mis-takes. The Queen wished, on the break-ing out of war, to start the Guild in such a 

nected with the work have toiled daily and unceasingly for seven months is the most wonderful part of it all.' "Before Christmas nine hundred and seventy thousand belts and socks were collected and sent as a special gift to the soldiers at the front, from the Queen and the women of the empire. That in itself is an amazing record of efficiency.

"It is rather comforting to know that there were mistakes in the beginning. It is so human. It is comforting to think of this exceedingly human Queen being a party to them, and being divided between annoyance and mirth as they developed. It is very comforting also to think that, in the end, they were rectified."

## Mother's Corner

#### To My Mother

Now I lay me down to sleep--Aw 'gwan, don't want to sleep, I want to think, I didn't mean to spill that ink;

Under Pa's desk an' be a bear — Taint 'bout the spankin' that 1 care.

'F she'd let me 'splain an' tell

An'

' she'd let me 'splan an' tell Just how it was an accident, An' that I never truly meant n' never saw'd it till it fell, I feel a whole lot worser'n her; I'm sorrier an' I said I were.

'spose if I'd took on, and cried a lot,

spose if i u toos on, and creet a too. An 'choked all up like my Nis does, An 'acted sadder than I wuz, n' sobbed 'bout the "horrid spot." She'd said: "He shan't be whipped, he shan't." An 'alobhered an' kissed—but, some-how t can't An

how I can't

But I don't think it's fair a bit.

- An'
- ut I don't thins it's fair a bit. That when she talks at you An' you wait patient till she's through: n' start to tell your side of it. She says: "Now that'll do my son. I've heard enough," 'fore you've begun

'F I should die afore I wake – Maybe I ain't got any soul; Maybe there's only just a hole Where 't ought to be – there's such an Ma, Where 't , ache t'

Down there somewhere! She seemed to think

That I just loved to spill that ink. -Beaver Valley Gazette. The Canadian Thresherman and Farmer.

August. '15

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meet, when mother reads aloud.

When mother reads aloud, far lands

- Seem very near and true; I cross the desert's gleaning sands, Or hunt the jungle's prowling bands, Or sail the ocean blue;
- Far heights, whose peaks the cold mists shroud.

I scale, when mother reads aloud.

When mother reads aloud, I long

For noble deeds to do---o help the right, redress the wrong; It seems so easy to be strong.

So simple to be true. Oh, thick and fast the visions crowd My eyes, when mother reads aloud! --Haumah G. Fernald, in St. Nicholas.

The booklet, "Helps for Expectant Mothers," will be sent free to any wife upon request. Address Pearl Richmond Hamilton, 983 Grosvenor Avenue, Winnipeg

#### "Good-Bye, God Bless You"

I love the words—perhaps because When I was leaving mother, Standing at last in solemn pause, We looked at one another.

And I—I saw in mother's eyes The love she could not tell me-A love eternal as the skies;

Whatever fate befell me-

She put her arms around my neck, And smoother the pain of leaving.

And, though her heart was like to break She spoke no word of grieving; She let no tear bedim her eye,

For fear that might distress me, But, kissing me, she said good-bye, And asked our God to bless me.

-Eugene Field.

In an editorial in "American Mother-hood" last month, Mrs. Lutes gives an interview she had with a famous woman. Mrs. Lutes writes for mothers. and asked the famous woman to give her and asked the famous woman to give her a message for them. The famous woman was an unmarried woman who had a beautiful home purchased with her own earnings. This is a part of the inter-

"I want you," I said, coming bravely "I want you," I said, coming bravely to the front with my request, "to give me a message for my readers. I, too, have a great work, and for it I draw upon the accomplishment of those who have gone before. Tell me something out of your life which will be a message of inspiration to my friends who wait for the word of such as you." The famous woman bent forward over the table and looked at me earnestly. She was very lovely, her white hair touched with the faint glow of the candles.

candles

"Let me see," she said, "your readers

"Let me see," she said, "your readers are mostly women, aren't they?" "Mostly." I admitted, "and mostly mothers. A good many young girls there are, too, and some men. But the great majority are women-young or old." "Well," said the famous woman, push-ing back her plate and clasping her strong, capable fingers on the cloth, "I have a message for those women, and I am glad to give it. Did you say they were mostly-mothers?" were

"Mostly, yes, they are mothers." "Do you think they are—happy moth-rs?" Again the little note of hesitant ers' wistfulness. I had to hesitate now and think. I

had to go, in my mind, over the hun-dreds and thousands of letters I have had from mothers, and think whether the universal note was one of happinessor not. Finally, "I should say-not exactly

"What would you say"—the famous woman's cheeks were flushed now, her eyes shone with a deep and intent light eyes --- "what would you say was the greatest prohibitive cause to their happiness?"

Again I had to go inside and deliberate. 'Well," when I had summed it up, "I

"Well," when I had summed it up, "I should say that care was the greatest restriction. In the first place they don't seem to know what to do with their children. They don't know how to feed them, clothe them, manage them—" "In other words, they've got into a job they're not prepared for. Is that it?" "Pretty much," I had to admit. "Well," said the famous woman. "that's your job—to show them their profession is one worth training for, to nelp train them, and to prepare the gen-eration that's coming on. I shan't meddle with that end of it. My message is dif-ferent. Come in here." ferent. Come in here." We arose from the table and went into

We arose from the table and were more the lovely and luxpricus library where a soft crimical light glowed from a distant table, and where every nook and corner invited you to comfort. "Listen!" The famous woman laid the flower are were and we noused

her fingers on my arm and her fingers on my arm and we paused. There wasn't a sound but the stately ticking of a big clock in the hall. "Still, isn't it?" There was a tone in the voice

theship of a log clock in the name. Sufficient it? There was a tone in the voice that took my eyes quickly to her face. As quickly they turned away, for I had looked upon a soul that suffered. We went on into the room. "Look about you." The famous woman's voice was low and there was a tense repression in it that shook you. "Look at that couch yonder." It was a marvel of comfort—cushions, a lamp at its head exactly where the rays would fall on a book or paper, a low table for magazines—books on a shelf overhead and within reach, flowers on the table. "Wouldn't that be an ideal place," said

"Wouldn't that be an ideal place," said the woman softly, "for a tired man to

thought, "there isn't any man." A turned abruptly to the long, wide An where books and magazines and a

where books and magazines and a of pencils and paper cutters stad. "See these books," she said, and into my hands an exquisite eng "Anderson's Fairy Tales," then of "uobin Hood," another of "Redu Crusoe.

"I keep these here," she said. "to ile myself. I think how the child ould love them. I invite childrai "I keep these here." she said "to guile myself. I think how the did would love them. I invite childs here to look at them. They com-they go. And when they are gots rooms are still—still. Nothing but ticking of the clock, the purring of eat, the rustle of my dog as he com-ment me. There are no tay to this meet me. There are no toys to pu There are no little shoes lying a There are no—children. There is man. There is no—family. It is a because because it is mine, but it lacks the Oh, my dear, tell your mother won forget their cares and foolish worr puny frettings, and rejoice, rejoice it



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life. The so sweet ious rela fe, and t ented by them the eep from attaine who has des of the ese all awa have a hus hom she le ds on her a man actua cause cas ill. Thin be hat! Thin panicky be atter with the woman ht when he cause he i by and lo with som but the ince tand on the just to wa I walk alon are lit to life behind mart and bl n catch up his head, and es her cheel ell them to ru r of their fam hous gleam o to forget the iness of it. To ittle ones about them. Tell them. Tell at the dirt their pet ground o a silent house ause their the house with ions, but to let t bem, and be ha to rub their family as a p give all the money canno Tell then ily has riches ss but that her grasp. T ented with th is more be furnished th t echoes to c -oh, tell ther an lifted her wh had brought h

#### 15 August', '15

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inexpressible happiness rs, and which they do not e having a beautiful bit of gred and tarnished so the m doesn't show. Tell them e tarnish of outside petty the heautiful thing that the beautiful thing they and how to care for it, but ig is to enjoy it.

thing is to enjoy it. Here at my window working and the families that go by on a and I am sick with envy. There a father with a boy trudging one side and a little girl on the he hand, or maybe a daughter tail as herself. There will be tail as herself. tail as nersen. There will be obile—a cheap affair, maybe, ? But in it the whole family mdled, even to the dog. And faces shine! To be sure, the

aces since: To be sure, the ost always wears a harrassed, t of look, as if the cares were the happiness, but there is a filment upon her face after all than makes up.

o lunch the other day in the riend where there are several sat and listened with a hunsat and listened with a hun-the give and take of family I saw the oldest daughter vn plate and slip around to chair, and with her arm ck nibble a bit from the cake

I thought of my own per nted, well served, but utterly , and my food choked me. have a message for your read-is is it: There is absolutely no on the face of this green earth no treasure so rich as that within their own hands and e within their own names and aut prizing—the possession of a fe. There is no relationship on sweet and perfect as the is relation between husband and this is rounded out and ted by that between parent

them that a woman who has p from the cup of life, a woman attained what the world calls ho has riches, fame, friends in of the mighty, would gladly of the mighty, would gracity il away if, in their place, she a husband who cared for her she loved, children to make

her and to love her. Why, I actually turn pale the other word came to him that his . Think of being cared for Think of having a whole icky because there's something er with "Mother!" Think of woman to whom a man hurries when he's blue, tired, discour-

when he's Dire, tired, discour-ause he is sure of comfort and y and love, or to whom he with some little gift, trivial in t the incense of a heart of love. d on the street corners some ist to watch the men hurrying mell show the street effect the walk along the streets after the we lit to catch the glimpses of e behind their windows. My urt and blur as I see the workart tch up his baby and toss it ead, and I envy his wife when her cheek

em to rub the tarnish off the ir family life and catch the gleam of its shining. Tell he worries and enjoy the Tell them not to bother of the nes about their clothes, but to

le ones about their clothes, but to em. Tell them not to worry he dirt their boys drag in. Better i ground out with muddy feet silent house. Tell them not to ause their young people want to house with friends and com-house her friends and com-bat to let them come and rejoice and be happy with them. Tell o rub their eyes and look upon mily as a possession that others as a possession that others all the world to own but y cannot buy and talent canmily as a Tell them riches cannot bring but that the woman who has has riches and happiness both her grasp. Tell them a bare home nted with the growing flower of is more beautiful, more wonher grasp sly furnished than the palace which r echoes to childish voice. Tell -oh, tell them——" the famous an lifted her white hands, the hands

had brought her riches and fam

The Canadian Thresherman and Farmer.



and pressed them to her eves-"tell them we-lonely souls are sick with envy of them. Tell them that." She lifted the hands from her face and

I withdrew my eyes from the tragedy in

hers. "I do not let it embitter or spoil my "I do not let it embitter or spoil my life, you know." She was smiling now. "I am a very busy woman, and I have much to be happy in. I rejoice in my work, and in –life. But, you asked me for a message, and I have given it to you. Out of the depths of my heart I have drawn the most sacred of my de-gires. Go tell your mothers, and the girls who are going to be mothers, what comes from the soul of a famous woman she would gladly barter her fame for their chance at happiness. Tell them for God's sake to make the most of what they've got, for there's nothing better to be had."

And I am telling you

# Home Economics

This department will be pleased to publish the papers read at the H.E.S. meetings. They will interest other so-cieties. Kindly send all communication to my private address, 983 Grosvenor Avenue (P.R.H.)

A Thought for All Women I perceive that the world in which I live is running over with beauty, from the exquisite down on insect wings and the snowy heart of a crimson radish, to the wonder of the morning star and the the melody of the vesper sparrow.

I believe that it is my privilege and duty to be as beautiful as possible in myself, in my surroundings and in every relation that connects me with thing oughts and folk

thoughts and folk. I perceive that when my spirit is beau-tiful within me 1 am better able to create conditions of loveliness and peace outside myself; that peaceful and at-tractive surroundings help to preserve this beauty of spirit within me. I believe that it is my privilege and duty to be lovely and lovable not only in myself but in every relation of life. Perceiving and believing these truths I hereby make compact with myself: I will strive to be sweet and sensible: conrageous and calm: loving and loval:

courageous and calm; loving and loyal; generous, just. patient. I will strive to keep my body in good

and beautiful condition through cleanly ways, wise food, ample fresh air, health-ful exercise, sufficient rest, sensible and attractive clothing.

attractive clothing. I will strive to keep my home in heau-tiful condition; clean, oru-rly, comfort-able, convenient, hospitable, as attrac-tive in furmishings as my means permit; a nome which the family will ever oe loath to leave, to which neighbors and wayfarers will ever be eager to come. I will strive to bring orderliness and charm into every nook and space of door-yard and grounds; so shall it be easier to maintain a loavely attinde of

dooryard and grounds; so shall it be easier to maintain a lovely attitude of mind as I come and go over the home threshold: so shall all who pass in and out find the day and the way fairer and

hetter. I will strive to discover beauty every carry beauty where and in everyone; to carry beauty to everyone; to keep things, thoughts and folk as lovely as I find them; to leave them, if possible, fairer than I

Page 47

ienve tuen, or re-find them. Thus shall I multiply the sum of beauty in this fair world where I am

#### Manitou

Manitou The Jume meeting of the Manitou H.E.S. was held at the home of Mrs. Wm. Falls, five miles from town. The day was stormy, so only about twenty members were present, every one there was glad she had bravel the bad roads and threatening skies, for a most enjoy-able aftermoon was spent. able afternoon was spent.

After settling several important busi-ness matters, a social hour over the tea cups followed, while the guests enjoyed the delightful lunch provided. The meeting closed with a vote of thanks to Mrs. Falls for her hospitality, which the several settlement of the several settlement of the several settlement of the several settlement of the settlement of

and this singing of the National Anthem

On July 1st Manitou held its annual sports day. The ladies of the HES sports day. The ladies of the H.E.S. served lunch on the grounds and cleared a nice sum, which went to this Rest a nice sum. Room Fund.

Room Fund. On this evening a splendid concert of all local talent was given to a crowded house, the proceeds to be equally divided between the Rest toom and the Red Cross. We are much pleased to find we had seventy-two dollars for each, and the ILES. felt this satisfaction which follows success. follo success.

Lilian M. Gwilliam.

#### Swan Lake

I wish to apologize to the Swan River Society. An excellent report was sent in, but was not delivered to me until too late for publication (P.R.H.) I am sure

ASSIMILAN MAMASSING MAINANA MANANAN AND SINT

August, '1:

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the paper by Miss Shirley will help every rea Giving and Getting the Best in Life

(By Miss Etta Shirley) Paper read before the Swan Lake H.E.S., March 27th, 1915:---

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skill, and yet some are content to work in a sphere of highest service with dull tools Bring out the best in others. That

unds like beginning at the wrong end. but it is in drawing out the best in others, that the best in ourselves is de-veloped. Our appreciation of good in others, is an expression of our better

selves. We are unconsciously at our when we are helping others to be hest at their best.

Also, if we can only see the worst in our neighbors, then the lower side of our natures will come on top. The person who is always on the outlook for something to make fun of in others will in thing to make tun of in others will in time lose the power to discern and ap-preciate that which is noble. Sneers as well as blessings come nome to roost inter the look for good in the sinner and not for sin in the saint.

Unless we are at our best, we cannot Unless we are at our best, we cannot give our best to others. In each of us there is a three-fold being: Physical, Mental and Moral, so inseparable that one cannot exist without the other, and yet so distinct that one may be devel-oped and the others left undeveloped. A boy however perfect, and a mind how-ever thoroughly trained, will not suffice. They must be properly directed by the sound. Unless all three are developed and trained, we cannot give our best.

So many of us miss the best in life b cause we do not look for it in the commonplace things or in our everyday friends and neighbors around us. Be cheerful aid smile at the people you meet and they will smile at you. Do not live in the deptas of self pity and blame Invent the depths of self pity and biame the world for your environment. Believe in the goodness of men and women and look for the hidden riches in them. We sometimes forget that the great things are often nearer when we stoop than when we stoop than when we soar.

It is well to remember that unless we are ready to give the best of which we are capable, we shall not get the best because we shall be unable to recognize when it comes along.

Portage la Prairie We are pleased to welcome the ocieties.

Editor Canadian Thresherman I was requested to write and kty know of the Home Economic Sa which we have started in Portage which we have started in Peta Prairie. We organized in February have had very good meetings of fourth Saturday of each month. have one hundred and fifty members had a dressmaking and milliners of three weeks held in March, each by Miss Smith. Miss Gowell and May, of the M. A. College, which yeary nonular indeed to indee the May, of the M. A. College, wa very popular indeed to judge large numbers who took advanta We have recently bought a pia the McLean Co., Winnipeg. and endeavors now are to pay for have had one lawn social at w verticed diviety ping delawa. realized thirty-nine dollars. a cold evening we thought we very well. We propose holdi more during the summer, and h more during the summer, and be tax each member 10 cents a mo the piano is paid for. We hold a ings upstairs in the Munici Half of the hall below is the La room, which has supplied a want. The ladies often saying want. The ladies often saying usy not know how they had got along the Altogether our Society is very pen and so far we have got along fin. hope to see our Society among the in the Province. Yours,— K. Brydon (Ptre laft Corr. See El

#### La Riviere

The regular meeting of the La Rid H. E. Society took place at the hom Mrs. J. Henry on Friday, June 25. h

0.01111 had no. ad as ha He Coll ated by was decided er the clos red by Wm. Wigh Miami regular n was held day, May 2 in the chai retary in t

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t paper of their dis

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m as it a "The ( gave a chickens, i ad the diffe when the c id discussio he women for nonth in th It was deci , viz., "I " "Canni "Canni "How to me discus r three do bread it peace 1 peace 1 tration in o the M.A. the M.A. njoyed by to have M tration in er next if po Tι tten by Mrs. the Miami f n the turke aiways be : The visit he chances o e first few d

may consist of hard boile , the whole with bread stirred in mil gs and brea and onion d lettuce, br ats may be a little sulph or drinking. little ginger erv critical ti turkey is wh It lasts about

ary that th during this tir ree from draug erally on stin seed meal It is well and even r ing turkeys suf nite. The mo care of before a good insect

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#### August, .15

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a fairly good attendance and one rolled as of the Ho-Mayde Pow-was distributed, and those it reported that it was CONTRA

d been received from the pply Co. re "fruit in sea-ing that the names of the ing thi

> ings, after which the presi ings, after which the presi-paper taken from the cticulturist entitled "How own vegetable seed." s have been received from lege, which were very much y those who had read them.

> ded to hold the next meet-ne of Jrs. Wm. Wightman Mrs. A. Henderson and the

ghtman

#### Miami H.E.S. Meeting

egular monthly meeting of the was held in the Rest Room on May 22nd, with the vice-presi-he chair. Miss McNevin acted the chair. Miss McNevin acted tary in the absence of the regu-tary. There were about forty-ies present and a splendid pro-was given. Mrs. Kerr gave an t paper on the care of young their diseases and the best ways otary as it appeared. It was unani-lecided to hav, this paper pub-"The Canadian Farmer." Mrs gave a paper on the care of chickens, including the testing of d the different kinds of food rewhen the chicks were very young. d discussions followed each paper women felt that an hour spent onth in this manner was of real as decided to send for three bread improver. signed.

ite and ld Portage in . Februar eetings month v members aillinery ou arch, conduct wsell and M which ge, judge by i dvantage d a piano and all for it 1 at which 's. As it a t we had a rolding sets and besides, a month a hold our me unicipal h re Ladies'h a long ing they a long be mong the

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t the home



Miss H. E. Wightman Press Reporter.

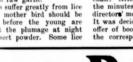
was decided to send for three, viz., "House Flies and their" "Canning Vegetables in the "How to Destroy Rats." Also me discussion it was decided to three dozen samples of Ho-bread improver. Resolution bread improver. Resolution peace largely signed. The tration in cooking by Miss Craw-i the M.A.C. on April 23rd was noyed by the women. It was to have Miss Crawford give one tration in cooking each week in rest if possible.

Turkeys itten by Mrs. A. C. Kerr, and read the Miami Society:---en the turkey-hen is sitting she 1 aiways be attended by the same a. The visit of a stranger may the chances of success.

the chances of success. the first few days the feed of young may consist of a semi-dry mash of hard boiled eggs, boiled rice and s, the whole being cut fine and with bread errumbs, bran or oat-stirred in milk. After the fifth day a surved in milk. After the fifth day eggs and bread are gradually sup-ed and onion tops, tender grasses, gel lettuce, bran, shorts, barley or a losts may be added. Pure water a little sulphate of iron may be for drinking. When the young look a little ginger may be added to the

ver critical time in the life of the g turkey is when about two months when the shooting of the red takes a li lasts about two or three weeks when the should be kept advang this time and in a dry place free from draughts. They should be likenily on simulating food: ground p, seed meal and finely chopped s. It is well to add salt, pepper, ky and even raw garlie. Mag turkeys suffer greatly from lice mite. The mother bird should be a care of before the young are led. Dust the plumage at night ry critical time in the life of the

hed. Dust the plumage at night a good insect powder. Some lice



The Canadian Thresherman and Farmer.

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Page 49

are hard to see. A little sweet oil

NAME (Mrs., Miss, Mr.) ...

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a soft finished surface; the a soft finished surface; the dust or soil, a very de two pleats back and fror with wide lap outside le waist band; are full if

to rip. W

are hard to see. A little sweet oil rubbed lightly on the head and throat will destroy them. Diarrhoea is caused in most cases by dampness, dirt or vermin. The best remedy is to remove the cause. Boiled rice with a small quantity of charcoal gives good results. It is recommended to give two parts of ginger, cinnamon. cloves, cayenne peppers, the whole well mixed with a mash; a teaspoonful for a dozen young turkeys. You can double the dose when four or five weeks old.

The regular monthly meeting of the Miami H.E.S. was held in the Rest Room on June 19th. Fifty-seven ladies were present, including three ladies from Roland, where a H.E.S. has been lately organized. The president was in the chair. After singing "The Maple Leaf," the minutes of last meeting and of the directory" meeting were read and adouted. directors' meeting were read and adopted. It was decided to avail ourselves of the offer of books from the M.A.C. Among the correspondence was a letter from

Portage la Prairie, who have lately or-ganized, asking for information regard-ing conducting meetings and length of same. Mrs. Bond, who so often has de-lighted us with musical selections, ac-companied the opening and closing odes on the auto-harp. The constitution and by-laws of our society, which were drawn up and submitted to the directors, were read and adopted, a copy of which is to be sent to Roland Society. As several societies in this province have asked for our by-laws, we shall be glad to send same, on application to our cor-responding secretary, Miss Seip. It was decided to serve lunch on Fair Day, July 8th, a committee being appointed for same. The month's programme was two papers, one on "The Care of the Sick Room," by Mrs. Wilkins, gave an up-to-date idea of the work of a trained nurse. The second paper by our president, Mrs. The second paper by our president, Mrs. McNevin, on "The Relation between the Home and the School," was well received and it was decided to have this published in "The Canadian Farmer." The Roland

ladies expressed themselves as well pleased with the manner in which our meeting was conducted. The meeting closed by singing the National Anthem. ed themselves

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#### Recipes

Scalloped Celery—Cut into pieces about one inch long and stew until tender. Make a pasto with a table-spoonful of butter and one of flour; add about a cup of milk; butter a baking dish and put in celery and sauce. If there is not enough sauce to cover the there is not enough sauce to cover the celery, add enough more milk. Sprinkle the top with cracker crumbs and dot with chunks of butter, putting in sail and pepper to suit. Bake twenty min-utes in a hot oven.

Graham Pudding.—Two cupfuls Gra-ham flour, one cupful molasses, one cupful sour milk, one teaspoonful soda





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Kid from the Farm.

starch

baked pie shell.

DENTISTRY WITHOUT PAIN

AT LITTLE COST

THE CANADIAN THIRESHERMAN AND FARMER. and one of salt, two tablespoonfuls butAugust, '1;

ugue B,



methods Dr. Moxnes' parlors are an index to man and his work, which is guar-ed to be of the very best in every ante Where extractions are nece detail. detail. Where extractions are necesisary, or tender nerve points have to be dealt with, a perfect immunity from pain is guaranteed, and the exceedingly moderate charges (which can be ascer-tained at once on a free consultation) will appeal to every reader of this magazine who has been experimentinf with doubtful work and exhorbitant prices prices

A Mississippi man has propogated a new citrus fruit by crossing the orange and the grapefruit. It is called the orangelo.

**188 LOGAN AVENUE** 

Bread and Prune Pudding. Soak two cupfuls of prunes over night and in the morning remove the stones. Cut and butter eight slices of bread. Place in the bottom of a buttered baking pan, a layer of buttered bread and cover with Sprinkle with sugar and nut prunes. meg. Follow with a similar layer of bread and prunes. The top layer should he of buttered bread alone. Make a custard by beating two eggs, which are anded to two cupfuls of milk. Pour ovethe pudding. Cover the baking pan and bake for half-an-hour, after which re-

Joseph Hall, Proprietor

move the cover and bake half-an-hour

move the cover and bake half-an-hour longer, so the pudding will crust. Apple Pudding—1 are and slice seven or eight apples. The tead is a seven to bread seven the seven of the seven to a seven the seven of the seven to a seven the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven out of the seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to a seven of the seven of the seven to the seven of the seven of the seven the sev

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 Iment of Natural Resources, C. P. R., Winnipeg. ., CANAD

The Canadian Thresherman and Farmer-

Orange Sauce.—Three-fourths empful prange juice, one tablespoonful lemon juice, one-half cup sugar, one tablespoonful cornstarch, a few grains of sail, one teaspoon-ful butter, yolk of one egg. Put one cup of water on to boil; when boiling add the cornstarch which has been mixed with a constarch which has been inived with a little cold water, the orange juice and lemon juice, sugar well beaten yolk of one egg and the salt; boil three minutes; add the butter and beat until well mixed and smooth. Serve hot cr cold. Pieces of stale cake or bread instead of orange puffs can be served with hot orange sauce poured over them. th

them. Green Pea Omelet,....Two quarts green peas, shelled and cooked or 1 can of peas, 4 eggs, 3 tablespoonful warm, water, 1 level tablespoonful batter, 5 level table-spoonful salt, 4 level tespoonful pepper. Have ready the peas, cooked, hot, and seasoned. Break the eggs into a bowl; beat lightly with a fork, just coough to mix the whites and yolks. Put the butter into a saute pan. When melted, but not brown, turn in the eggs. Cook carefully over a hot fire, shaking the pan, so that the omelet whites and yolks. Put the butter into a saute pan. When melted, but not brown, turn in the eggs. Cook carefully over a hot fire, shaking the pan, so that the omelet will not stick or burn, and with a thim-bladed knife lift the edges, allowing the un-cooked portion to run underneath. When the omelet is firm, but not overcooked, sprinkle with salt and pepper, add some of the peas, fold, and turn onto a hot platter. Garnish with the remainder of the peas and parsley, and serve at once. Time of proparation, 10 minutes, cooking 5 minut s. Number served, 4 persons.

preparation, 10 minutes, cooking 5 minutes, Number served, 4 persons. Scotch Potatoes.—Peel and slice thin or flute enough potatoes to fill a kettle to about one and one-half inches from the top Put in a layer about one inch deep. Add thinly-sliced onion and butter or any other fat. Add small cubes of salt pork and season with pepper and salt. Continue with potatoes, onion and seasonings until all are used baving rotatoes on ton. Add all are used, having potatoes on top. Add hot water until it just covers potatoes. Boil until potatoes and onions are tender.

Three Birds with one Stone. A sim-ple sponge cake, made from three eggs, a cup and a half of sugar, a half eup of water, and two cups of flour, sifted with two level teaspoonfuls of baking powder, may be put together in ten minutes and will furnish the basis for three excellent desserts.

When the batter is ready, drop a spoon-ful into each of eight or nine well buttered muffin tins, adding to each an English wal-nut meat, a few seeded raisins, or a tea-spoonful of grated cocoanut. They will

nut meat, a rew sected raisms, of a very spoonful of grated cocanuit. They will need no further decoration and served with fresh or canned frait, with a simple boiled custard, or with a cup of hot chocolate form dessert No. 1. Spread a thin sheet of the batter in a medium sized bread in, or a square layer cake pan, bake until done but not brown, turn out upon a clean cloth, and spread at once with grape, currant, or blackberry jelly. Roll carefully while still warm, wrap the cloth around it and set it away for des-sert No. 2. When ready to use, cut into inch slices and serve with either caramel or cream sauce, hot.

inch slices and serve with either caramel or cream sauce, hot. The remainder of the batter may be baked in a single rather deep layer in or pie pan, and may be used with whipped cream as a Charlotte russe, with boiled custard as floating island, or it may be split with a sharp knife and filled with crushed fresh fruit, strawberries, bananas, or peach-es, and the whole covered with whipped cream. Or a thick custard cream, made with cornstarch may be spread between, forming a cream pie.

with cornstation may be spiced between forming a cream pic. Of the three desserts, the small cakes had better be used first as they will dry out the most rapidly, while the jelly roll can be kept for the hast, as even if it is a little dry, the hot sauce will freshen it.

the not sauce will freshen it. Blackberry Mush.—Is an old standby, usually liked by everybody. Stew the ber-ries with a little water; when they are very soft sweeten, and thicken with flour and water. This should not be quite thick enough to mold, and is eaten with cream, when it is cold whe old

when it is cold. **Dutch Cheese Daintily Served.**— Prepare Dutch cheese in the usual way, roll into balls as large as an egg and serve on individual plates in nests of parsley. Sprinkle a bit of chopped parsley and one chopped olive over the top. Another way is to prepare the cheese with cream, seasoning, etc., then pat out flat, use fancy cookie cutter and cut in dainty shapes. Serve on small plates gar-nished with lengthwise slices, very thin, of cucumber pickles and rings of pickled pi-mentos. Stick a aprig of parsley and a ring of pimento in the center of each cheese cake. cal

Chop one cup of English walnuts and



moisten with a little mayonnaise, with one cup prepared cheese. Spre tween thin slices of brown bread. aise. Mix Spread between thin slices of brown bread. Serve each sandwich on a crisp lettuce leaf. Chop one stalk of crisp celery and twelve pimento stuffed olives, mix with one pint prepared Dutch Cheese. Serve on crisp lettuce leaves as a salad with a spoonful of mayonnaise on top or a dab of whipped cream may be used if preferred.

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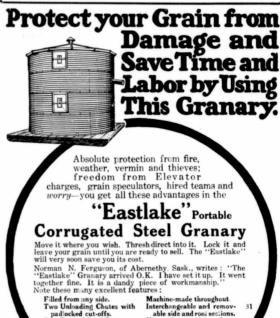
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SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

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tain conditions. W. W. CORY, C.M.G., Deputy of the Minister of the Interio N.B.—Unauthorised publication of this adver ement will not be paid for.—64388.



IT WAS A CANARD

We are glad to be informed that there was no truth in the story circulated some time ago to the effect that the Mail Order firm of Christie Grant Limited had been obliged to close its Limited had been obliged to close its doors. Latter developments prove that they were only reorganizing, as the firm is now issuing a larger catalogue than before, besides adding, together with other lines, a well stocked Grocery Department. As its list of stockholders contains the name of many heights

names of many business men who are prominent in financial circles, there can be no doubt but that the Christie Grant Limited business is here to stay and that it will, undoubtedly, soon be rated among the largest mail order concerns in Connected in Canada.

## An Ideal Equipment for an Ideal Farm Home

We have pleasure in calling attention We have preasure in calling attention to the announcement on another page of a new system of plumbing, water sup-ply and heating for the Farm Home by Patridge and Halliday, of Winnipeg. By this system it is possible to obtain at comparatively little cost all the convenience and comfort of the city resi-dence in the attention. dence in the matter of water supply and heating. The heating is by hot water, and as our friends states, it is "a luxury at the price of a compone necessity" at the price of a common necessity." We are glad to bear testimony to the high standing of this firm, and to recom-mend our readers who contemplate making themselves cosy for the winter to get in touch with our friends. We will be glad to send their complete litera-ture free to any address.



Amidst all the welter of blood, of Amidst all the welter of blood, of savagery and crime, one meets, thank Heaven, deeds of self-devotion, intense humanity and the true spirit of the bighest form of Christianity—the lave of others and the effacement of self. France has ever been a land of heroic deeds, men and women have given up wealth, position, even life to nelp their neighbors at their context. Let be serve

neighbors or their country. Let no one think that the days of heroes and hero-ines are gone. The noble deeds of the

think that the days of heroes and hero-lines are gone. The noble deeds of the Red Cross nurses testify to the undying charity and devotion to the following of Christ's teaching ever present when the call for help is heard. If France has produced and still pro-duces and ever will produce heroes and heroines amongst its manhood and womanhood, the children of France have been numerous in all ages for their cour-age and heroism. A few months since a been numerous in all ages for their cour-age and heroism. A few months since a little girl of ten was standing in the front row of a terrified crowd watching the destruction of a house by fire in a provincial town of France. As is usual, several families lived under one roof, and the cager face of the girl heroine was seeking to find if all had been saved when she heard a mother with several children cry, "Where is baby? My God, she is in her cot!" She had to be forced back to keep her from entering the burn-ing building. In the confusion a slim little girl rushed into the house, knowing ing building. In the confusion a slim little girl rushed into the house, knowing where baby was, caught it up and rushed through the smoke and heat and placed it in its mother's arms.

it in its mother's arms. During the present terrible war another little French girl has given proof of courage and devotion that has brought many a blessing on her fair young head. The tale is told by a private of the Brit-ish Royal Artillery and we fancy that many a Canadian little girl of Madeline's age (the heroine's name) will not only read with interest this tale of her brave eacts but will think why should occasion acts, but will think why, should occasion present itself, should I not also be a heroine?

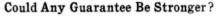
Madeline is of course not the everyday Madeline is of course not the everyday girl of nine years of age, for her courage is as conspicuous as her kindness of heart. Just fancy a child of nine carry-ing hot coffee to the poor half starved





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#### The Canadian Thresherman and Farmer

and frozen soldiers in the trenches: but the terrible howing of shot and shell through which she has to pass to get to the trenches she heeds not. Many a man

the trenches she heeds not. Many a man would not risk his life as Madeline has done daily on her mission of merey. Since the English press has given pub-licity to little Madeline's actions presents of all kinds have been showered on her, but it was the last thought, doubtless, of this sweet little child that she was doing anything extraordinary, nor, we are sure, did she look for any reward, but would have been fully repaid by a kindly smile and a word of thanks.

A Dog Who Knows the Value of Money A Dog Who Knows the Value of Money The Farm Journal says that one of its employees, w..le on her summer vacation, was introduced to Prince, a collie nine years old, a fine specimen of this breed. It is said of him that if you gave him a cent he takes it to the candy shop, puts the money in the attendant's hand, and begs until the candy is given to him. But this is the wonderful part: If you give him five cents he takes it next door

From many signs it seems hardly pos-sible that we have yet realised in West-ern Canada what the great war means to us in our homes and in our national

life—particularly what is the duty and privilege of those of us who for many reasons are compelled to "abide by the

stuff." There are so many valid rea-sons why men who are to all appear-ances "it" cannot take their place by the side of those who have gone into the

the side of those who have gone into the firing line, we will not presume to say what any particular individual's duty is. If he is not already alive to it and is **doing** it, the loss will be his, because we are going to see this thing through, and there will be no more humiliating after-math than that of the shirker whose record will pass on to his children's chil-dren.

But those of us who are palpably unfit.

But those of us who are palpably unfit, or because we happen to be women, and must stay at home, there is one way at least in which every one of us can do a big bit, and do it with a brimming heart. We can do a very great deal in sus-taining the spirits, and in helping to alleviate the physical disconfort and suffering of those splendid mau-folks of ours who have made the whole world ring with the story of their valor. Their endurance and loyalty to what they know in their hearts to be the greatest thing that man ever fought for has al-ready inscribed the very brightest page

ready inscribed the very brightest page

If they have been spared these horrors,

to the ice-cream parlor, gives the money to the attendant, climbs up into a chair and begs and barks until they give him an ice-cream cone which he carries outan acceleration one which he carries one side to carry which is too heavy, he takes out some of the things and comes back for them! Isn't he a wonder?

#### COULDN'T BE PASTEURIZED

Mrs. B. had been getting poor milk from a certain dairy, and in hopes of bettering conditions she called up anbettering conditions she called up an-other milk company and asked if they had good milk.

had good milk." was the reply, "we sell "Yes, madam," was the reply, "we sell pasteurized milk and cream." "Now, you can't tell me that," she replied indignantly. "Everybody knows there isn't any pasture in Manitoba in January."

One Thing at a Time Young Lady—How is it you don't come to Sunday school, Katie? Katie—Oh, please, miss, I'm learning French and musie now, and mother doesn't wish me to take up religion till here later.

23

## AN APPEAL

Are You "Doing Your Bit" for Our Lads at the Front?

#### 

Your Moral and Material Support

The consciousness – expressed in tan-gible form – that they are never forgotten at home will do far more to cheer them in their lonely night vigils, to alleviate the mental anguish of their prison life and the sufferings of their shot-riddled bodies than anything in decorations for bravery or the kind words of strangers.

#### You Owe it to These Men

no less than to those of your own flesh, for they are spilling their last ounce of blood and patience to save your house hold

This association has been formed to This association has been formed to supply a continuous stream of comfort while **Our Boys** have a single need un-satisfied. I, By getting in touch with Winnipegers (or men who recruited from Winnipeg), whether they are war prison-ers, in hospital, or in the transhest 2. to a more than the transhest of the transhest of the transhest of the statement of the transhest of the tra ers, in nospiral, or in the tremenes; 2, to see that they are not overlooked in the matter of correspondence; 3, to send per-sonal comforts—particularly to the in-jured and incapacitated; and 4, to serve as a channel to direct donations of every kind, so that they may reach their ob jective.

#### You Lannot Go?

here is one thing you **can** do. You easy give your dollars, and no citizen of big-hearted Winnipeg is a "slacker" when hearts are trumps. **This is an affair of** the heart.

In the personality of influential over-seas friends, if human care and heartfelt interest may be trusted, not a single item sent will fail to reach its destination.

This is a personal message—you may take it from the boys themselves. They expect to hear from you.

#### Certainly We Do

Note—This effort is designed to cover a field that is not and cannot be effectively reached by any other War Service organi-zation now in existence. It will not in-terfere with, but rather facilitate the work of the "Red Cross" and similar movements."

movements." Need we add anything to this stirring appeal? We are glad to associate our-selves with this splendid idea. Any con-tributions will be gratefully accepted, and if addressed to the editor of our Woman's Department, Mrs. E. W. Ham-ilton, 983 Grosvenor Avenue, Winnipeg, they will be taken care of and duly ac-knowledged by her as well as by the Secretary of the Association. The fol-lowing are the names of its officers and executive: executive:

Hon.-Pres., C. N. Bell, LL.D.; Pres., George D. MacVicar; Sec., Harry C Ash-down; Treas., J. V. Nutter. C.





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The Canadian Thresherman and Farmer

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The Canadian Thresherman and Farmer

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MORE than ever this year that familiar combination, International Harvester tractors and Oliver plows is busy at work turning the soil of West Canadian fields. They have grown more popular steadily----a solid popularity based on satisfaction.

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