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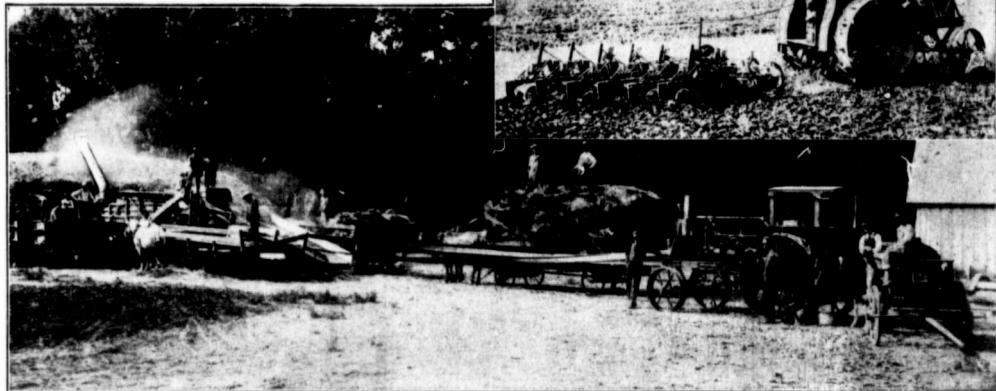
The CANADIAN THRESHERMAN AND FARMER

WINNIPEG CANADA

FEBRUARY
NINETEEN SIXTEEN



Published Monthly by E. H. HEATH CO. LIMITED — Our Fourteenth Year



NOW -- A Combination Threshing and Plowing Outfit. Any Size You Want

By getting an Avery Gas and Oil Tractor you have power that you can use for both Threshing and Farming, all in the one machine. An Avery Plow and an Avery Thresher with your Tractor to furnish the power for either, will give you a complete Threshing and a complete Plowing Outfit.

You can get one of these Avery Combination Threshing and Plowing Outfits in any size you want. Anything from the largest outfit built down to a small plow outfit for your own use and a small thresher to do your own threshing and that of a few of your neighbors. There are five sizes of Avery Combination Threshing and Plowing Outfits as follows :

8-16 H. P. Tractor with 3 bottom Plow and 19x30 inch Thresher
12-25 H. P. " " 4 " " " 22x36 " "
18-36 H. P. " " 5 " " " 28x46 " "
25-50 H. P. " " 6 " " " 32x54 " "
40-80 H. P. " " 8-10 " " " 36x60, 42x64 or 42x70 inch Thresher

There's a Size Avery Plow Outfit for any size farm and a size Avery Thresher for any size run.

Avery Design Proved Successful by Tests

There are more acres plowed every year by Avery Tractors and Plows than by any other make. This is clear proof that they have met the test of actual field use and have proven successful. In fact they were introduced by a sold-on-approval policy to be paid for only after they had made good in the customers own field and had been accepted by him. They have also been entered in every public contest and demonstra-

tion held and have proved that they would do all we claim for them and even more.

Avery Threshers have also been proved out by tests threshing on canvas. For several years we made tests in a number of different states to prove what Avery Threshers would do in saving the grain. The average in 27 tests was 99.9-10 per cent of the grain saved — the best proven record of grain saving ever made.

All Built by One Company

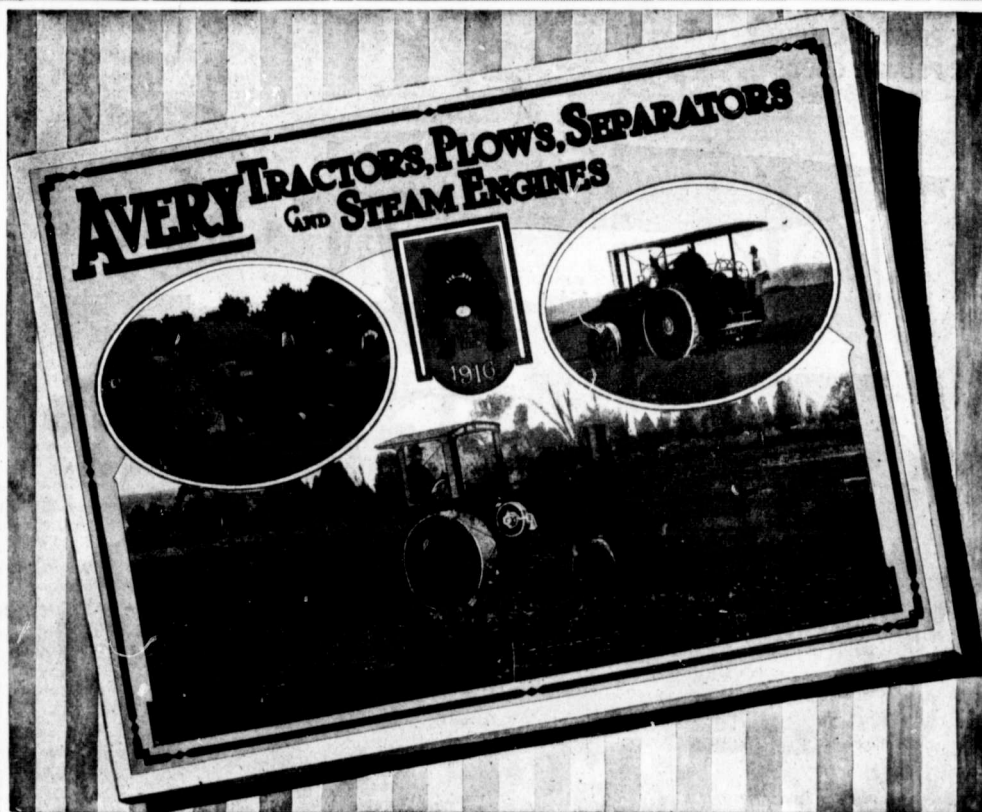
There's a big advantage in being able to get a complete Threshing and Plowing Outfit — any size you want — all built and backed by one company — and a company with a large factory and many branch houses which insure prompt and permanent service.

Get All the Facts about Threshing and Power Farming with an Avery Outfit. Write now for new 1916 complete Avery Catalog.

EVERY COMPANY
675 IOWA ST., PEORIA, ILL. **Canadian Avery Co. Ltd.**

Western Canadian Distributors WINNIPEG REGINA CALGARY

EVERY



A Catalog You Certainly Want To See

If you are in the market for any machinery this year you certainly want to see a copy of the new 1916 Avery Catalog. It's the finest book we have ever gotten out.

It shows an Avery Tractor, Plow, Separator and Steam Engine in natural colors on the front cover. It contains a large number of new illustrations showing the detailed construction of Avery Tractors. It shows the new renewable inner cylinder walls, two-speed gear and other new features. It tells you all about the original patented Avery "Self-Lift" Plows. It contains a picture and a letter from a man who made a razor out of an Avery cylinder tooth and shaved himself before the crowd at the North Dakota State Fair to prove the quality of steel in Avery cylinder teeth. It shows the new Avery Steam Engines in all three sizes — 16, 20 and 25 H. P.

Write us as to what machinery you will be in the market for in 1916 and we will mail you one of these new catalogs at once.

AVERY COMPANY Canadian Avery Co. Ltd.
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Western Canadian Distributors WINNIPEG REGINA CALGARY

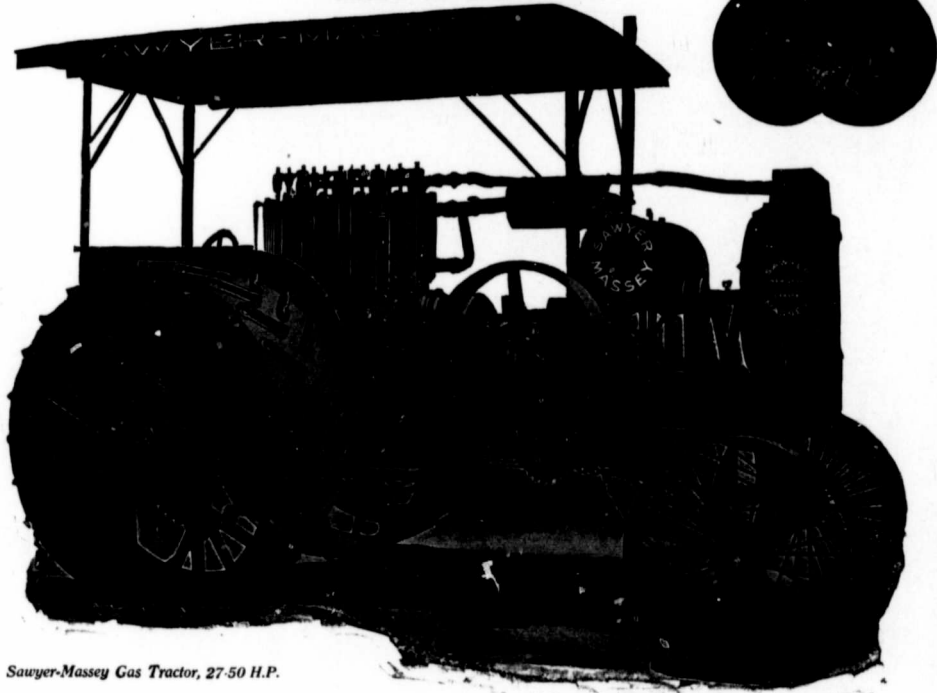
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THE PREMIER COMPANY
THE PREMIER GOODS



WINNER OF GOLD MEDAL
AT WINNIPEG

MADE IN CANADA



Sawyer-Massey Gas Tractor, 27-50 H.P.

RESULTS MAKE REPUTATION

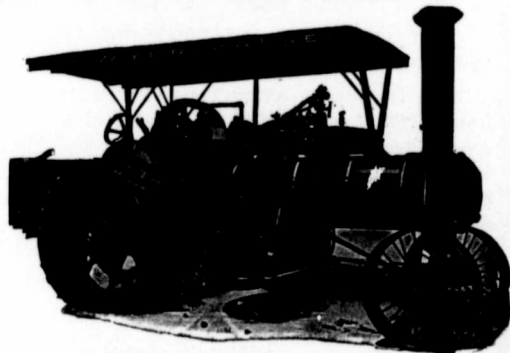
A machine, like a man, to get a reputation for doing things, must produce results. The reputation earned by the Sawyer-Massey Gas Tractor is based on accomplishment, both in the contest and on Canadian farms.

The Sawyer-Massey 27-50 H.P. Gas Tractor

- | | |
|--|--|
| Uses less fuel. | Has greatest excess horse-power over rating. |
| Uses less water. | Performs the highest quality of work. |
| Travels farthest without replenishing water. | Has greatest speed range. |

These features of this Premier Tractor indicate superiority. Every prospective user of a gas tractor can well consider them.

years experience in building farm power machinery takes expression in the entire line of Sawyer-Massey machinery. Sawyer-Massey tractors meet every condition of usage in every section of the Dominion. Write for our new illustrated 1916 Catalogue, and learn the facts about these machines.



SAWYER-MASSEY COMPANY, Limited

Builders of Steam and Gas Tractors, Threshers and Road-making Machinery

Head Office and Factory HAMILTON, CANADA
Branch Offices and Warehouses: WINNIPEG, Manitoba; REGINA, Saskatchewan;
CALGARY, Alberta; Agency, BUENOS AIRES, Argentina

SAWYER-MASSEY



Vol. XXI.

WINNIPEG, CANADA, FEBRUARY, 1916.

No. 2.

The Automobile is Fast Becoming Not Only a Vehicle of Pleasure, but the "Jack of all Trades" on the Farm

DEVELOPMENTS of the automobile is a fair representation of the active temperament and the controlled energy of our genius. This progress in scientific effort has placed mechanical reputation on the very top round of progression, and the wonder of the entire world increases when it is realized that the history of this marvelous achievement dates back but a few years.

Sixteen years ago the automobile was simply a horseless carriage with springs not fit to be called such, with no pneumatic tires and with but little to recommend it in any way. The sensation of riding in one was far from pleasant, producing the feeling that you are sitting over a miniature volcano which frightened you with its mutterings and was likely to explode itself without a moment's warning. It had no practicability and was, in fact, but a toy for the adventurous rich. It is true there had been a vague idea of an automobile or something akin to one, in the minds of some people for years, and this idea was worked out and demonstrated by Gottlieb Daimler, a German engineer. He devised and built the first successful motor, and it was taken up and demonstrated by the French firm, Panhard and Levasor, whose products have been known all over the world. This was twenty-five years ago, and following it the foreign manufacturers placed machines upon the market, but they were designed only for travel over the best roads and under certain and assured conditions, and were accessible only to the very wealthy man and were used for his pleasure alone. It was left for more recent inventors and engineers to produce the automobile of today, and this transforming of forces which nature holds into practically applied mechanical power is nowhere more manifest than in the development of the automobile. It is no longer an experiment but a recognized and

If Not For The Farmer Then Who?

accepted necessity of commercial and agricultural life. When the automobile first made its appearance even the best informed mechanics questioned its practicability on common country roads. Engines had been used for years on railroads where traction was sure and even surface was provided so that wear and tear were reduced to a mini-

of the motley caravan which is fast disappearing into the most of discarded things. A hundred parts have been done away with and the engines are now so simple that any one can operate them and locate difficulties and correct them. The present day automobile engine is fool-proof. You can get at the movable parts without taking the engine to



SIXTY-ONE YEARS AGO! Start of the first horseless carriage trip in New York. The date was 1855 and among the notables in the picture are the Mayor, Chief of Police and Richard Dudgeon, inventor of the wonderful steam wagon.

num, but to pack an engine on a frame and so adjust it that it could and would propel itself over the hills and through the ditches of uneven country roads, was a proposition that demanded not only mechanical genius but the very highest type of workmanship. The first gasoline engines were stationary and were operated by explosions. It was thought necessary to provide a bed of concrete for those engines of "hot tube ignition" and clumsy construction. These gasoline engines were things of many troubles, but they have been relegated to the past and can be seen trailing along at the end of the line

pieces, and the owner is able to keep his machine in perfect repair with little trouble or expense. It has been the problem of the manufacturer to build an automobile that would plough through sand and mud and over ruts and stones, with an engine powerful enough to drive the car up steep grades and still admit of being throttled to the desired limit. Five years ago it was a common thing to see a machine by the roadside and the driver under the car, much to the amusement of many of our country citizens, but that is a thing of the past, and today the farmer is the strongest advocate of the practicability of

the automobile to the agriculturist. It is fast becoming a necessity, and he is not slow in recognizing the fact.

The farmer has the reputation of being conservative to the extreme, and this opinion was not changed in the minds of people by the attitude he at first assumed towards the automobile when it made its appearance along his peaceful highway. He looked upon it as an interloper, a nuisance and a thing to be condemned. There was just reason for this opinion, too, because the machine seemed to do little else than raise a dust and cause stampede among his stock. To the farmer it represented only the selfishness of capital and the touch of antagonism, but the farmer of to-day stands squarely for progression and the secrets of the larger progress are wrested from all sides of his experience, so it is not surprising that he has passed the point of tolerance and has accepted, and is using the automobile to a very large extent. The automobile is rapidly becoming the farmer's machine. To the city man it is counted a luxury, ninety-nine cases out of a hundred, but the farmer has recognized his advantage and is placing the automobile among his necessities. He is a logical thinker, and no point of advantage escapes him. His long experience with farm machinery has made him a mechanic, and the automobile finds in him an appreciative owner. The farmer is ingenious; it has been necessary for him to develop every capability he has possessed along mechanical lines, and when the automobile took its place among his chattels he set about to prove its worth on the farm. He is original as well as ingenious, and has turned his car into various uses not dreamed of by the manufacturer when it was placed upon the market, has learned the secret of its power, and by clamping a pulley to the hub of the rear wheel of the machine, jacking the wheel up, he belts it to his pump or feed-chopper. This means economy of labor and time. The auto runs the grindstone and turns the

churn in the dairy and makes itself useful in many other ways during the busy life on the farm. The practical farmer was quick to discern that during the long harvest time or the rush of spring plowing, when every horse was needed for the work of two, that the automobile could be rolled into the gap and fulfil every requirement for which the horses otherwise would have to be taken from the field, and in much less time and with a saving of energy and force to all concerned. The poultry is marketed without delay, the creamery is visited with a speed that tells the story of successful placing of products, and on the same trip he does his banking, his trading and his gossiping, in half the time usually spent for the same ends. He combines pleasure and business in a hundred ways. In many localities it is not at all unusual to meet the farmer with his load of poultry or milk cans on the way to market, and the fact is impressing itself not only upon the manufacturer, but upon the world at large that the automobile rightfully belongs to the farmers of this country.

Perhaps the country people have come to appreciate the advantages of the automobile in ways of which the townsmen have no conception. In many instances when sudden accident or sickness requires a physician, a life has been saved because the farmer or the doctor have owned an automobile. The matter of education for the children has come for its share in the story of the auto on the farm. The town school is reached without effort where it used to mean that the young people must go in town to board from Monday until Friday night. It has meant, too, the bringing into the home life the spirit of content. The boys are liberated from the dullness and the monotony of farm life, in being able to enjoy the social privileges they wish and demand. The automobile will be the means of keeping many young men on the farm when they would otherwise slip away from the home life and be lost in the maize of uncertain fortune in the city's overcrowded commerciality. "Money well invested," one farmer said with a broad smile on his genial furrowed face as his boy cranked up and was off for a good time at the close of a busy day. A spin of twenty miles is nothing, and when a day at a picnic is planned it does not signify that the entire family must be up by starlight in order to get an early start in the morning, or the toiling into the late hours in the evening in order to get the chores done after the day's outing. That farmers are appreciating every phase of the helpfulness of the machine was fully

demonstrated at a farmers' picnic last summer, where out of twenty-five vehicles sixteen were automobiles.

The automobile has brought rapid and pronounced advancement along co-operative lines among farmers. In the first place it has been conducive to better roads. Where the automobile travels, the spirit of improvement

of haulage is 10½c. for one hundred pounds. Thus it has actually become true that to carry wheat ten miles by wagon costs more than 2,300 miles by steamship. These are startling facts, and the solution will be the automobile truck. Many manufacturers have made a study of the truck situation, and his need and the truck for the farmer is an as-



THE HORSE THAT NEVER TIRES.

follows in its trail. There was a time when the farmer felt that the good roads question was up to the municipal authorities or somebody quite as competent, but with the coming of the automobile into the rural districts as a fixture among the citizens, has also come the inspiration born of necessity, and the farmers are looking after the roads over which they and their machines must travel. He not only keeps his own property in good condition, but by an exchange of service he helps his neighbor along the good roads line.

The co-operative idea has fixed itself in the minds of the farmers, and the manufacturers, and the automobile is the central figure of attention in this field. In this connection the automobile truck comes in for recognition. It is said that it is cheaper to carry wheat from one country to another than from the farmer's barn to the nearest town. The average distance that a Western Canadian farmer has to haul his grain is estimated at over fourteen miles and the average cost

measured result. Trucks with five-ton grain capacity are now being used. As the thresher meets the requirements of the neighborhood so will the automobile truck haul the grain of a community, while the more moneyed farmers will own trucks of their own to carry on the work of the large farm.

With all of these facts making themselves felt by every one, the question is asked every day, "Will the automobile supersede the horse?" In the cities, largely, but on the farm it will but supplement the horse and fill the place of the extra horses which have to be kept throughout the year in order to have their help in the busy season. This is one of the greatest expenses to the farmer, and the automobile is proving its worth in this special particular. However, the lover of horses looks at the question from still a different standpoint, like the old darkey down in Georgia when first seeing an automobile, exclaimed: "Praise de Lord, the white man dun freed de nigger, and now he's dun freed de mule."

It might not be too venture-

some to suggest, however, that no machine of steel and steam, of cog or cam, no vapor-fed motor, no craft propelled by batteries and boilers, can more than in a measure displace the horse in his many uses, in business, sport and pleasure. Until human nature becomes something else, the beauty, strength and utility embodied in a well-bred, well-trained horse, whether intended for the carriage, the saddle, the truck or the plow, will be admired by human kind, and profit found in his rearing, improvement and varied use. It is impossible that this appreciation for the horse shall seriously abate, though his production is, as a business, like all others, subject to vicissitudes of supply and demand, fashion and fancy, method and manner, time and place. Incidentally his propagation was never more profitable nor his prices higher than now. There are no indications that the gasoline wagon is lessening any important demand for horses of the heavier breeds; for these, while they are more numerous than ever before, the call was never more insistent than it is now. For, even if it might have been feared, no signs point to any permanent lack of interest in the harness horse, for the elite of the fashionable centres have already exhibited renewed interest in smart drivers, to differentiate themselves from the masses so largely using the motor car and thereby making it common, if for no other reason.

There is, it must be confessed, an air of pomp, circumstance and style, suggestive of aristocracy, if you please, about the possession and direction of a high-stepping, free acting, dashing team of high-bred roadsters, with proper appointments, not matched by the automobile.

Not only has the auto-car not depressed the draft horse business, but instead it will increase the working capital of the farm and its efficiency by tending to eliminate the many purpose horse. Few farmers, comparatively, kept a team adapted exclusively for the



THE MOTOR MAY SOME DAY SOLVE THE PROBLEM IN HARVEST TIME.

road, but, on the other hand, probably a pair having no particular merit, and used both for traveling and farm work and suited especially for neither.

The farmer who has time to give outside business affairs has established himself in a very lucrative occupation in owning an automobile and doing not only the marketing for himself, but for his neighbors. Some progressive young men are opening auto liveries in the small towns, and are doing a good land business in connection, using their machines to carry the customers into the rural districts to inspect their farm lands. Many of these villages are made up almost entirely of retired farmers and their families, many of them still owning their farms and using their automobiles to run back and forth in the superintending of the work. It is but a short trip to the farm and back again, bringing fresh supplies of all kinds, thus bringing the advantages of the country in close touch with life in town. Month by month the advantages of the automobile to the farmer seem to increase and many farmers are asking: "Can I afford an automobile?" The reply comes at once from those who speak from experience.

"Yes, if you will use good judgment in caring for your machine. It will prove itself to be not a luxury, but an investment which will give the best returns."

There are few, if any, who have more or better reasons for employing these machines than the farmer. Naturally he is a mechanic; force of circumstances makes him one. He knows machinery, and hence should be able to care for, and run his car at a smaller expense than the city man, and with greater efficiency. In contemplating the advisability of buying, the man of the farm should not be governed by statements of the cost of upkeep from the city man's experience, as the farmer may eliminate much of the cost of the garage and the chauffeur.

Only the car of high-grade in every detail should be bought for the country, about in much the same manner as if choosing a horse, that is, by fully considering the requirements to be met, for the utility of the various cars, like that of the different breeds of horses, is to a certain extent limited. Proportions of weight to size horse power, methods of ignition and drive, gearing and engine construction are all essentials to be considered, but no one should so far lose his mental balances to buy unless well able to do so. This does not necessarily imply that the cash should be in hand in every instance, but if it is believed that the purchase will

give fair returns on a combination of business and pleasure then buying would be a natural sequence.

In innumerable ways it may add to the economies and attractions of farm life. Instead of the slow, wearisome trip to town in the jolting, nerve-wrecking lumber wagon, with a jaded and overworked team, or even the spring wagon or carriage and a pair of fresh roadsters, the automobile

make for more neighborly, congenial committees, and contributes to culture and refinement that, without the mental contact and association with others, might not be attained. It helps to break the isolation and loneliness of rural life and particularly so in the case of the good housewife, in whose years of strenuous labors restful pleasures have been in many instances all too rare. If it helps

so far as it saves time, team and man to the farm, to that extent is the auto helping to solve another serious rural problem, that of labor.

Therefore, aside from big dividends the auto may pay in added contentment, its material uses are manifold. Its consideration in farm affairs brings to mind the wonderful changes in the environments of those of the rural districts now and those in former times, brought about largely by inventive genius. Farm implements of the greatest labor-and-time-saving qualities have been provided. It is a far cry from the old-time forked stick, dragged by drowsy oxen, followed by drivers no less listless, to the burnished gang plow propelled by a quartet of Percherons, and the steam plow that turns sixteen or more furrows at a time, from the flail to the twentieth-century grain separator, or from the reaping hook and cradle to the binders and headers of the present, implements all brought to their higher perfection in comparatively recent times. These and other modern devices have made possible industrial conquest, lifted burdens from the husbandmen, put more and better food within the reach of the masses, brought wealth and often luxury for those who till the soil, and immeasurable benefits to multitudes born and yet to be born. More recently the trolley cars, telephone lines, rural free mail delivery, and improved roads have ameliorated and benefited the farmer's industrial and social conditions; enlarged prosperity has provided modern conveniences in the home and it remains for the auto to remove the last objection to rural life. It is epochmaking in face affairs; it promotes broader views, helps the farmers' organizations, enables closer community of interests, and should bring nearer the day of co-operative marketing. As its possibilities come to be more fully understood, the use of the motor car in rural

Continued on page 23



THE FARMER WHO WANTS TO SEE THE WORLD IS NOW INDEPENDENT OF RAILROAD TRANSPORT.

makes the journey quickly and comfortably, leaving the team available for us at home, which is extremely important, especially at certain seasons. When farm affairs are pressing, the necessary trips may be taken with the auto after the day's work is done, and as recreation, if there be no son or daughter to run the car at other times. It will carry milk to the creamery, take the women shopping, haul minor produce to market, bring home supplies, and on Sundays, while teams are resting, may whisk the family to church or to neighbors or distant friends. During harvest, when the shining hours are precious, in the emergency of a breakdown in the machinery the telephone and the city auto can quickly be made available to bring the necessary extras or repairs and work goes on with little loss from delay. The auto encourages visits that

brighten the lives of the farm women, or to lighten their burdens, it serves a most worthy purpose.

In thus contributing so materially to the convenience and contentment of the farmer's family, the motor car is removing one of the chief drawbacks urged against the farm—its monotonous drudgery. Important, too, is its tendency to keep the boys on the farm, where large opportunities are, for unless all signs fail agriculture is entering an era wherein farming will be made more attractive, more remunerative, more dignified and more respected. Also, by making available a larger working force in the farm the auto has a greater significance than at first blush might appear, for it not only makes possible better cultivation, but the farming of larger areas, and hence large production and further, in



THE MOTOR TRUCK IS NO RESPECTOR OF ROADS.

THE CANADIAN THRESHERMAN AND FARMER

CANADA'S LEADING AGRICULTURAL MAGAZINE

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Feb.

1916

OUR NATIONAL SPEECH

OUR GUARANTEE

No advertisement is allowed in our Columns until we are satisfied that the advertiser is absolutely reliable and that any subscriber can safely do business with him. If any subscriber is defrauded by E. H. Heath Co., Ltd., we will make good the loss resulting therefrom. If the event takes place within 30 days of date advertisement appeared, and complaint is made to us 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 Canadian Thresherman and Farmer." Be careful when writing an advertiser to say that you saw the advertisement in "The Canadian Thresherman and Farmer."

EVERY BABE THAT IS BORN or imported into Canada is a final reason why the present Manitoba statute law as to language should be abolished. Certain politicians and panic-struck ecclesiastics are doing their utmost by argument and threat to save it, but like the old parish pulpit stricken with dry rot, its fate is the furnace—it is not worth saving. There will be whole batteries of argument fired off before it is finally got rid of, but no honest man in his senses will advance one solid reason why that bi-lingual law should be perpetuated. If there are "treaty obligations" bound up with it, anything of the kind that may be pre-

of a few acres in the bottom lands of the Missouri "holding on"—marooned in the centre of a swirling flood that is rapidly washing away the last square foot of crumbling soil that gives him standing room. That is practically the position of the men who send ten children to a particular school and insist that the language of their native province shall take precedence of all else in the education of their young people. The tragedy of it is that the children, not the men, become the victims.



THE HON. DR. THORNTON,
Minister of Education, Manitoba.

served on sheepskin became abortive from the day they were engrossed by the unwritten laws of justice, of human progress in that part of them which involves our obligations to the children.

The Minister of Education has taken it from this viewpoint. We hadn't expected anything else from the man than this courageous act of statesmanship. For years, the fate of our "foreign-born" children has been at the mercy or caprice of a clique of piffing politicians, not only in Manitoba but elsewhere in the Dominion where colonies of foreign-speaking folks have taken root. What that meant was foreseen from the first by men and women who claimed no special gifts in prophetic instinct. Rectitude, the genius of fair play and common sense alone inspired them, but they "went down to defeat" because these homely virtues had no chance when "matched" with the equipment and "influence" of the party boss. They were silenced and snowed under by flamboyant mountebanks and the cumulative weight of political corruption. This phase of our national life, however, we hope and believe has reached that point where it receives decent but utterly destructive burial.

Prescriptive rights are not usually given in perpetuity, but millions of self-centered mortals believe that they are and cling to them with a tenacity worthy of a nobler purpose. The man who will "insist upon his rights" at all costs forever holds them to his own ruin. Witness the owner

Poor, purblind fools, will it ever dawn on these Ruthenian neighbors that the purpose is to give these young hopefuls something; to give them such a start in life that they will at least suffer from no such handicap as that of being unable to make themselves understood anywhere outside of their own, little, parochial circle? How

can it be finally brought home to these men except through the medium of beneficial legislation that it is the desire of no man to deprive them of a single right or privilege? Is Canada expected to "carry on" as an integral part of the British Empire, or shall any portion of it be reserved as a recruiting ground for some foreign state?

What we have said is in no hostile spirit to a single foreign speaking section or individual of it. Far is it from any other feeling than that of peculiar tenderness for those of our race who do not speak the English tongue that we take our small part in urging the passage of this bill. Behind it, we are persuaded, there is the single-minded purpose to break down the last barrier that stands between "the foreigner" and his full enjoyment of every right or privilege known to Canadian citizenship. In Dr. Thornton's own words: "We are building under the British flag a new nationality. We come from many lands and cast in our lot, and from these various factors there must evolve a new nationality which shall be simply Canadian and British." The common school must be the melting pot. We never pass a school playground but there rises in our memory the prayer of the old Scottish dominie: "God grant it may never be our part to injure the destiny of those dear bairns, or to move their souls one step from Thee."

SUBSCRIPTION RATES

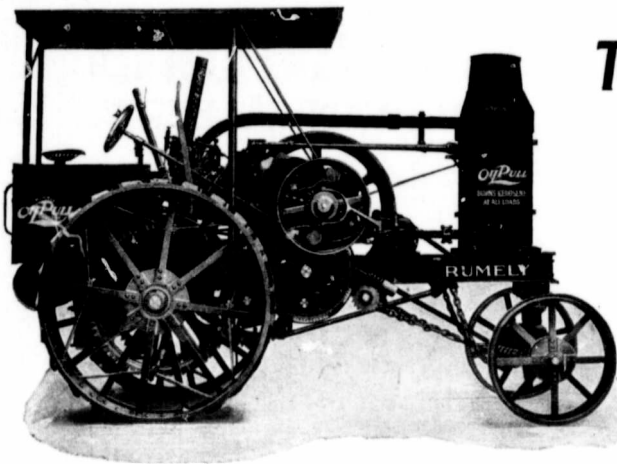
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There's Only
One OilPull
—Rumely
LaPorte



Kerosene Cuts Costs

With the price of gasoline going higher and higher, it makes the 5000 owners of Rumely OilPulls mighty glad they belong. Why? Because the OilPull is the only tractor that will successfully burn kerosene and cheaper oil fuels **at all loads, under all conditions--all the time.**

Just figure what that means these days, with the cost of gasoline more than double that of kerosene in some places. It means that with an OilPull the saving in fuel alone will cut the cost of operation over one half.

But low running expense isn't all. Next time you see an OilPull notice the strength of construction and convenience of handling. See how smooth and steady the power is on the belt--note the oil cooling which means no cooling water to bother with and no chance of radiator freezing.

This is the way owners feel about their OilPulls:

Plowing in Nebraska

"This Fall we plowed and drilled 700 acres of sod and not one cent expense for repairs. There is no limit for power. The Rumely OilPull has got them all skinned for less expense and easy handling, for plowing and threshing."

Seeding in Canada

"Last Spring we used a 15 H.P. Rumely OilPull for seeding, pulling 4 10ft. seeders, and we sowed a section of wheat in **seven days** with a cost of less than 30 cents per acre."

Discing in Washington

"I have disc'd 27 acres in five hours and my engine does more work than 20 head of horses could do."

The OilPull is made in two sizes, 15-30 H.P. and 30-60 H.P. Send for a catalog now, and when you have a chance drop in to see sample machines at our nearest branch.

Threshing in Kansas

"I estimate I save my customers for whom I thresh an average of \$1.50 to \$2.00 a day. The OilPull is the handiest machine I ever saw for threshing and operates perfectly **under any load.**"

Hauling in North Carolina

"Have had experience with traction engines the past fifteen years and feel that the Rumely OilPull is the **best hauling engine I have ever operated.** You can't beat it for pulling power and durability."

Road Work in the South

"I have never seen anything that equals your OilPull for road work. I am doing two or three times as much work as I did with a 20 mule team outfit, and at about one half the cost."

Advance-Rumely Thresher Company

(Incorporated)

La Porte,

Indiana

BRANCHES:

Calgary, Alta.

Regina, Sask.

Saskatoon, Sask.

Winnipeg, Man.

MIXED FARMING

MANITOBA - SASKATCHEWAN - ALBERTA

BY W.C. McKILLICAN B.S.A.

No. 23

Planning the Farm

ONE of the most important factors in saving labor around the mixed farm is convenience in the arrangement of fields and buildings. The extra distance travelled in going to and from distant fields soon uses up time that in a year is worth many dollars. The extra turns that have to be made in irregular or short fields are another cause of loss of time.

Arrangement of Fields

It is necessary for the mixed farm to be fenced. Live stock are an essential part of any mixed

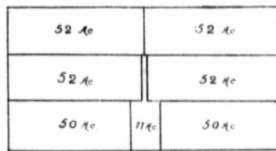


Fig 1 Scale 20 chains - 1 inch

farming system, and the only practical way of handling them in summer in our climate is fenced pasture. Rotation of crops is another important feature of mixed farming which must be considered in arranging fields. When a rotation has been decided upon, the farm must be divided to suit the requirements of that rotation. For instance, if a six-year rotation is to be used, then the arable portion of the farm should be divided into six fields as nearly equal in size as conditions will permit. A farm that is divided into four fields is hard to use for a six-year rotation. Or if the fields are of unequal sizes it makes the operation of the rotation less

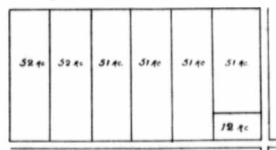


Fig 2 Scale 20 chains - 1 inch

satisfactory. The division fences should always be straight and parallel unless natural conditions prevent, and they should have as few corners as possible. Corner posts are the most expensive part of the fence and usually the weak spots.

Large fields are the most economical to fence and to work. They should be two or three times long as wide; this gives a long round with few turns. A square

field makes too many short rounds with mower or binder. A very large square field is all right as it may be split into two strips when these machines are used. Fields that are very long and narrow are all right for working, but they increase the cost of fencing.

A farm is most easily divided and most economically worked when the buildings are centrally located. However, the advantages of being near the road are so many and so great that one is not often justified in getting a central location by getting away from the road. The middle of a side of the farm is probably, everything considered, the best location for the buildings. Fig. 1 shows a farm of 320 acres with the buildings in the middle of a side, and divided into six practically-equal fields, with a ten-acre block left for building sites, lawn, gardens, permanent pasture lots, etc. This makes a very convenient arrangement. The fields are a good shape and size, they

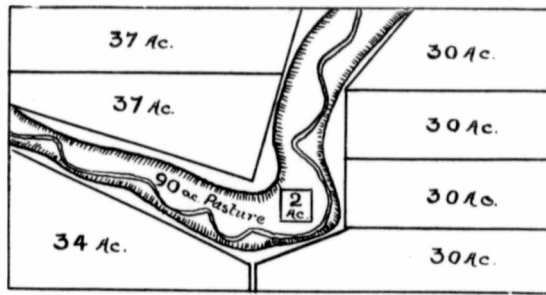


Fig 3. Scale : 20 Chains = 1 inch.

are all easily accessible from the barns, a short lane makes it possible to drive stock directly to any field. The fencing is not more than commensurate with the number of fields and has no unnecessary corners.

A very common location of the farm buildings is on the corner of the farm. When a group of neighbors live around a crossroads, this arrangement has its merits from the standpoint of neighbourliness and social life, but from the standpoint of convenience in working the farm, it is the worst possible arrangement. No matter how such a farm is arranged, some fields must be far from the buildings. When such a farm is fenced for mixed farming, either a long lane must be put in, or else the public road must be used for a lane. Fig. 11 shows

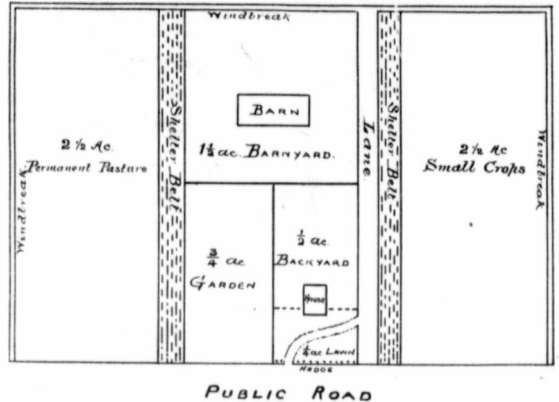


Fig 4. Scale: 2 Chains (132 feet) = 1 inch.

such a farm (half section) subdivided about as economically as is possible on a six-field basis, using the public road for lane.

In each of these instances uniform land is supposed, but under actual conditions, natural obsta-

stock farm on account of the water supply and shelter for stock. But with poor planning it might easily be made a very unhandy farm to work. With an arrangement such as shown, it is very little less convenient than a level prairie farm.

These illustrations all refer to half-section farms, but the same principles can be used in reference to larger or smaller farms equally as well. They have all been divided on the basis of a six-year rotation. Where four or five-year rotations are used fewer fields are required, and it is correspondingly easier to divide the farm satisfactorily. It is seldom wise to have more than six main fields on a Western farm; perhaps if the owner is very anxious to adopt a seven-year rotation it may be advisable to have seven fields, but that is multiplying the divisions and fences too much. Where eight or more years are in the rotation, it is possible to have half the number of fields that there are years to the rotation and have two crops in one field.

Continued on page 00

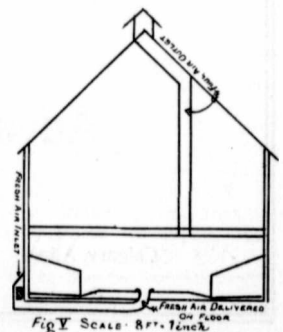
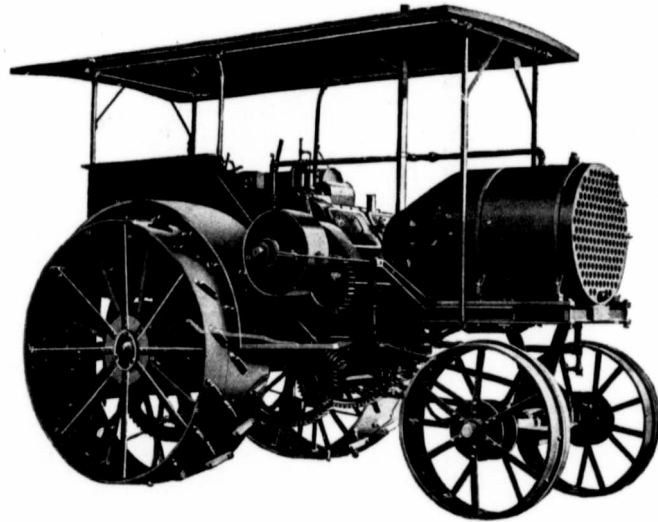


Fig 5 SCALE: 8 FT. = 1 INCH.

Aultman-Taylor Gas Tractors

Are Built to Stand Up Year After Year
On Any Power Job And They Do It Too

When Buying
Something as
Important as
a Tractor,
Why Let a
Few Dollars
Stand in Your
Way?
You Can Get
in an
Aultman &
Taylor
Tractor a
Size to Meet
Your Needs—
a Tractor
That Will Do
Your Work
Satisfactorily
—and the
Price is
Consistent
with Quality



HERE'S a tractor that will stand by you year after year on any power job, large or small. It will furnish you with the proper power to do deeper plowing, better planting and quicker harvesting and threshing. The good materials that enter into its construction, combined with proper design and thorough workmanship have placed it far in advance of all others. It takes a quality tractor to do quality work—to stand up under the many power jobs encountered on the average farm, but no power job is too difficult for a sturdy Aultman-Taylor Tractor to tackle, and it gets away with it too. You have never seen or heard of an Aultman-Taylor Tractor that failed to "make good"; neither have we. In every part of this, and many other countries, Aultman-Taylor Tractors are producing results far beyond the expectations of their owners. Mr. R. W. Caswell, Saskatoon, writes: "I have much pleasure in stating that the engine is all that is claimed for it. Easy to start and always ready to work, with good power, and is economical in operation." Mr. Henry Johnson, Bladworth, Sask., writes: "The 30-60 A. & T. tractor which we purchased last spring has been very satisfactory and we can certainly recommend it to any intending buyer." Mr. Jno. T. Cook, Southey, Sask., writes: "I have plowed 800 acres and double disced 200 acres and only took up one wrist box and had \$2.25 worth of repairs." Mr. Chas. E. Whitney, South Dakota, writes: "I am acquainted with all the different makes of tractors in the Northwest, and to my mind, you have the engine to save time, delays, repair bills and cuss words." Hundreds of letters of this nature are to be found in our files. Every Aultman-Taylor Tractor is a profit producer and makes friends wherever used.

Now that Aultman-Taylor Tractors are built in three sizes, we can fit you out with the proper size to fit your farm. All three sizes are winners and will do just what we recommend them to do. We have been telling the truth about our products for 51 years—it's a habit with us. Every word we tell you about the Aultman-Taylor Tractor is the truth. We stand willing to substantiate every claim—make good on every promise. All we ask is an opportunity to show you. Grant us this privilege, will you not?

Send To-day for Catalog and Full Information

The Aultman & Taylor Machinery Company

Lock Box No. 64, Mansfield, Ohio

BRANCHES: Minneapolis, Minn. ; Great Falls, Mont. ; Regina, Sask. ; Calgary, Alta., Canada

Send
for
1916
Catalog
Right Away

What We Are Doing in Manitoba

(Information Supplied by Publications Branch, Department of Agriculture)

The number of threshing machines in Manitoba during 1913 according to the Department of Agriculture, was 4,102, an increase of 132 over the year before.

Manitoba bee-keepers are offered the free use of a circulating library on bee questions. The library is in charge of R. M. Muckle, Provincial Apiarist, Department of Agriculture, Winnipeg. The demand for bee literature, which recently has been quite heavy, indicates a growing interest in apiculture.

Preparations are being made for 1,000 delegates and other farmers and farmers' wives at Manitoba Agricultural College during "Farmers' week," February 14 to 19. During the week the following bodies hold conventions: Home Economics Societies, Bee-Keepers, Seed Growers, Agricultural Societies, Poultrymen, Horticulturists, Ex - Students of M.A.C., and District Representatives. There will be a grain cleaning contest, an agricultural implement display, boys' grain judging contests, short course students' contest, a Soils Products Exhibition, and an exhibition of the work of Home Economics Societies. Very strong programme of addresses both for men and women have been arranged, the speakers not only being drawn from all over Manitoba but also from outside points.

The staff of Manitoba Agricultural College is this winter more active than ever before furnishing speakers for appointments in different parts of the Province. During recent weeks the College staff has delivered an average of 42 lectures per week outside the College. Also, in addition, considerable teaching material usually employed in the College work has been utilized in this extension service. A portion of these lectures have been given in connection with the country short courses; an average of 12 evening lectures per week have been provided in the public schools of Winnipeg; and other appointments have also been kept. The lectures to night classes in the Winnipeg schools have been the most regularly attended of all, and the instruction given has not only been useful to city folk who intend to begin farming but also to those who will only be engaged in gardening on city properties.



Cut Your Power Cost

In initial outlay and later upkeep MECO Engines are the last word in gas engine economy: they are designed to save you fuel, trouble and repair bills—and they do it.

The MECO is a strictly high grade engine, built of the best material by the best mechanics. It is 4-cycle, water cooled, with jump spark ignition, centre fire spark plug in cylinder head, and speed regulator which enables operator to change speed while engine is running. The engine shown below is our regular gasoline engine. Cash Price, complete ready for work. Made in six sizes.

3 H. P. \$ 58 00	3 H. P. \$ 87 00
4 H. P. 116 00	6 H. P. 174 00
8 H. P. 232 00	12 H. P. 348 00

F. O. B. Winnipeg

The John Stevens Company, Ltd.
661 Henry Avenue, Winnipeg



Separate bed, cylinder, cylinder head and water hopper. This adds strength to main bearings and lets you renew any of the parts if necessary without having to buy a new engine.

\$29.00
Per Horse Power



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

One effect of the war has been to put new life into cheese making in Manitoba. For a number of years this industry has been on the decline until in 1913 only 400,000 pounds were made in the province. The war, however, with its big demand for so highly nitrogenous food, furnished an excellent market for eastern cheese, and the Manitoba factories seizing the opportunity to supply the home trade almost doubled their make, producing, according to the Department of Agriculture's crop report, 726,725 pounds during 1915.

The area planted to corn in Manitoba increased from 30,430 acres in 1914 to 52,713 acres in 1915, according to the official crop report. In view of the damage to the crop by frost, the report makes this comment. While the condition in 1915 cannot fail to create disappointment among farmers regarding corn, this crop is so firmly established in many of the older districts that it will continue to increase in popularity. In view of the unfavorable season for corn growing, there is every reason to warrant our confidence that this crop is still one of our most profitable fodder crops.



Young women in the cookery class at the Boissevain Short Course, Jan. 10 to Feb. 5, 1916. Miss Crawford, of the Manitoba Agricultural College Extension Department, is here shown demonstration cake making. Fourteen more students were afterwards added to the class.

Breakages ^{Welded} by **Oxy-Acetylene**

impart a strength to the machine greater than it ever possessed, while the Job is the most finished bit of work ever attained in repairing a fracture.

We Are The Pioneers ^{OF THE PROCESS} ARE EXPERTS IN EVERY DETAIL OF OXY-ACETYLENE

If anything breaks or wears out on your threshing machine or traction engine, have it welded by the Oxy-Acetylene process. Your time is valuable—we can save you many precious days of delay, and, incidentally, many hard-earned dollars.

Your Blacksmith or Repair Expert Can Do This Work For You

See him now about your broken castings before starting your spring work. If he has not a welding plant write us, giving his name, and we will supply him with full particulars.

L'AIR LIQUIDE SOCIETY

328 WILLIAM AVENUE WINNIPEG, MAN.
Largest Manufacturers of Oxygen and Welding Plants.

The Manitoba Department of Agriculture in its latest crop report states: The gradual breaking up of the upland hay areas and the drying up of lower hay lands is responsible for a substantial increase in the total area sown to tame grasses. Our crop reports indicate that western rye grass and brome grass are best meeting the needs of the live stock farmers of the Province, brome being particularly reliable as a pasture grass. Timothy is not

rapidly increasing in favor in this Province.

The record of the year 1915 has been a good one so far as the dairy business in Manitoba is concerned. There were increases

Foaline

TRADE MARK REGISTERED

Will Save Your Foal from
**Joint Ill
and Navel Disease**

Its efficiency is guaranteed. Write for pamphlet.

Price \$3.00

Delivered anywhere. Prepared by

The Wallin Drug Co.
Manufacturing Chemists

407 Portage Ave. Winnipeg

Name this magazine when writing advertisers

CUSHMAN Light Weight ENGINES

For All Farm Work

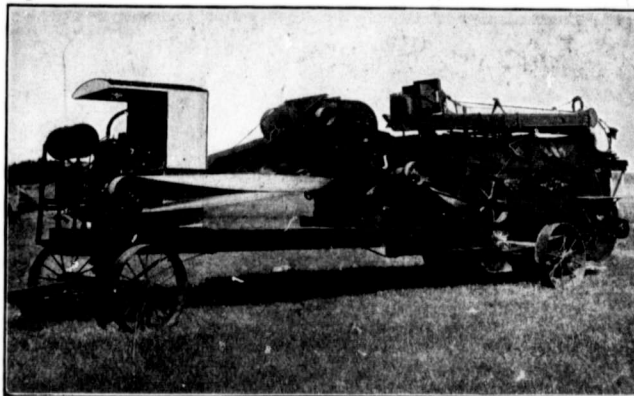
4 to 20 H.P.

Cushman 4-Cycle Engines are built to run without trouble and to do things no other engines will do. They represent a great advantage over ordinary stationary engines, in vertical balanced design, material and workmanship. Highly efficient because of light weight, higher speed, reduced friction and lower operating cost.

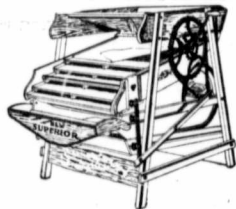
Cushman Engines are the lightest weight farm engines in the world, yet they are even more steady running, quiet and dependable than most heavy engines, because of Throttle Governor, perfect balance and almost no friction nor vibration.

Direct water circulating pump, preventing overheating, even on all-day run. May be run at any speed desired; speed changed while running. Enclosed Crank Case, gears running in bath of oil. Equipped with Schebler Carburetor and Friction Clutch Pulley. Mounted on Truck or Skid as preferred.

Because of very steady speed, the Cushman makes the best power for Cream Separators or Milking Machine, or for electric lighting outfits.



CUSHMAN COMBINATION THRESHER
8 h.p. with Straw Carrier and Hand Feed.
15 h.p. with Wind Stacker and Hand Feed.
20 h.p. with Wind Stacker and Self Feed.
Equipped with the famous Cushman 2-Cylinder Engines.



King of Wild Oat Separators

Save dockage, clean your grain before marketing with The Lincoln "New Superior" Wild Oat Separator.

With our patented open and blank space sieves it positively separates every wild oat seed, causing them to lie flat, and not up on end.

It is Strong, Well-Built and Bolted—Not Nailed.

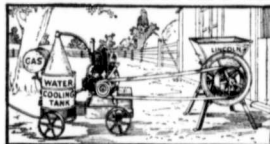
Our machine is built to clean any kind of grain and do perfect work. What the "New Superior" cannot do no other can do.

Made in sizes 24, 32 and 42 inches wide, with or without bagger, and with power attachment for gasoline engine if desired.

Talk with Your Dealer about the CUSHMAN LINE or write for FREE CATALOG

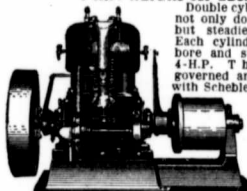
CUSHMAN MOTOR WORKS OF CANADA, 286 Princess St., Winnipeg, Man.

4 H.P. SAVES A TEAM ON THE BINDER



The 4 h.p. Cushman is the one practical Binder Engine. Its light weight and steady power permit it to be attached to rear of Binder. With a Cushman you can cut from 8 to 10 acres more and with less horses, if in heavy or tangled grain, and the sickle chokes, all you need do is to stop the team; the engine clears the sickle. Binder runs the same, whether horses go fast or slow or stop. Binder will wear several years longer, as it is not jerked faster and slower by the horses. Attachments furnished for any binder.

8 H.P. WEIGHS 320 LBS.



4 H.P. can handle, such as heavy grinding, small threshers, etc., or for any power from 3 to 9 H.P.

Double cylinders mean not only double power, but steadier power. Each cylinder is same bore and stroke as in 4-H.P. Throttle governed and equipped with Schebler Carburetor and Friction Clutch Pulley. A splendid powerful engine for heavier work than work than 4 H.P.

The Lincoln Smut Cleaner and Picking Machine



No machine can equal them for treating Seed Grain. Made in two sizes. Sold on a positive guarantee to prevent smut.

With high prices assured for grain next year, every farmer will realize the necessity of treating his seed grain so that he may have an increased yield of perfect quality grain.

Lincoln Smut Cleaners separate smut balls, wild oats, king heads and all light seeds from wheat, also wild oats and all light seeds from barley. By them the farmer can get perfect results. The grain is thoroughly pickled and elevated into the wagon box, being dried by the draining through elevator sieve. An automatic skimmer removes all impurities over a drainersieve at tail of machine, ejecting same, while wasting none of the pickling solution. Capacity 30 to 75 bushels per hour.

No. 3 machine handles 30 to 50 bushels per hour; No. 4, 50 to 75 bushels, accommodating either the small farmer or the large grain raiser. Strong construction, heavy timber; rustless solution tanks of 30 to 50 gallons capacity. Write to-day for particulars and prices.

Builders of Light Weight Engines for Farm and Binder use. Distributors of Reliable Power Driven Machines, such as Fanning Mills, Grinders, Saws, Cream Separators, Power Washing Machines, etc. Also Barn Door Hangers and Mountaineer Neck Yoke Centres.

upon 1914 of over a million pounds in the make of creamery butter, over 26,000 pounds in that of dairy and over 25,000 pounds in the output of cheese, while the increase in the total value of milk and milk products was over \$427,000.

A special contest has just been announced by the Manitoba Department of Agriculture for the students now enrolled at the short courses at Morden, Boissevain, Virden and Neepawa. From each of these schools a team of five students will be chosen. These will meet at the Agricultural College during "Farmers' Week," and will compete in live stock judging, grain judging and weed seed identification. To each student in the

team securing the highest aggregate score a gold medal will be presented, while each student in the second team will receive a silver medal. To the student making

the highest individual score a special cash prize of \$10.00 will be presented. The contests will be conducted by the Field Husbandry and Animal Husbandry staffs

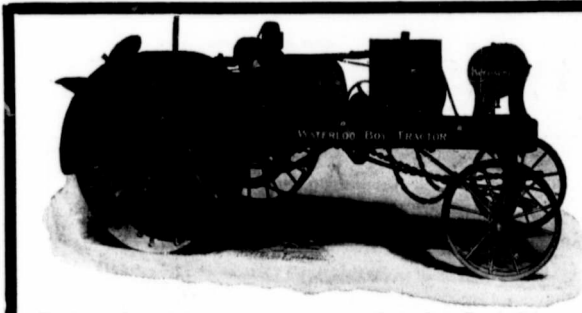
of the Manitoba Agricultural College.

Big Prizes Given During "Farmers' Week."

The list of prizes offered in connection with the annual Soil Products Exhibition which takes place at Manitoba Agricultural College, Winnipeg, from February 10 to 15, is by all means the most elaborate yet put forward. Besides very liberal cash prizes for various classes of cereals, grass and clover seeds, roots and vegetables, as well as a considerable number of cups, a total of 36 splendid special prizes have been donated by prominent firms of Manitoba. Among these prizes



Some of the young men attending the Short Course in Agriculture at Boissevain, Man., Jan. 10 to Feb. 5, 1916, under the auspices of the Extension Department of Manitoba Agricultural College. As this picture was taken at the commencement of the course, when the roads were blockaded, only about 60 per cent of the registered students are shown.



The Waterloo Boy IS THE GREATEST ONE-MAN TRACTOR YOU CAN BUY

Guaranteed Against All Disappointment by the Purchaser

The Gasoline Engine & Supply Co.,
Winnipeg, Man.

Noremac, Sask., Jan. 4, 1916.

The Gasoline Engine & Supply Co.,
Winnipeg, Man.

Hanley, Sask., Dec. 2, 1915.

Dear Sirs:—Am pleased to hear that you have obtained the agency for the Waterloo Boy. In regard to the amount of fuel and the oil used by my Model R Tractor, will say that it took about three gallons of kerosene and 1/10 of a gallon of oil per acre while breaking heavy land about four inches deep. I broke 230 acres, double disced about 500 acres, and threshed 18,000 bushels of grain with it this summer. I run a 28x42 Goodwin thresher with a self feeder and wind stacker. It required about 15 gallons of kerosene and about a quart of cylinder oil per 10-hour day while threshing. It certainly is a "pippin" of an engine and has caused any amount of comment. During the month of June I averaged seven acres per day, breaking with 2-bottom 12-inch gang. This was a real light load for the engine but considered it advisable to travel light on account of there being so much rain. Have plowed while the furrow was completely filled up with water when the heavy engine would never dream of working. While discing I pull two 8-ft. discs with harrows behind. It handled this load nicely. If I can be of further assistance to you, I would be very much pleased.

Yours truly,
(Signed) E. C. HAROLDSON.

Dear Sirs:—In reply to your enquiry as to my experience with the Waterloo Boy Tractor, wish to say that I unloaded the machine at Kindsersley and drove it home 30 miles. I then broke about sixty acres of very heavy land. You may judge for yourself when I say we always use five horses on one 14-inch plow. I pulled two 14-inch plows at a depth of 4 1/2 inches, which would mean a good ten-horse load, using four and a half gallons of kerosene per acre and barely a quart of Standard Gas Engine oil per day. I then disced the land, made two trips to Kindsersley. In one case I hauled 310 bus. of wheat on three wagons, and one empty oil tank behind, returning with three wagons loaded with lumber and oil tank containing 450 gallons of kerosene, using large pinions, making an average speed of three miles per hour.

After threshing my grain, I hauled it with two grain tanks up several steep hills to the elevator. In all, my roadwork would amount to about 250 miles. I never had an expert, not even to start the engine. After looking at the connecting rod bearings, I took a thin piece of brass out and the other would not stand taking up at all. I never touched the main bearings and never had to tighten up a nut on the frame since I got it.

I have now enlisted to go to the front and found no difficulty in disposing of my tractor for \$900.00 and can thoroughly recommend it to any person intending to buy.

Yours very truly,

(Signed) JAMES H. GRUBB.

WRITE FOR SPECIFICATIONS

GOOD LIVE DEALERS WANTED IN TERRITORY WHERE WE ARE NOT ALREADY REPRESENTED

Compare the "WATERLOO BOY" with any so-called "one man" tractor on the market to-day that sells for anything like the price. Note the construction, design, power, etc., and ask the other fellow about the guarantee, which is your protection.

We also handle Grain Grinders, Cordwood and Pole Saws, Electric Lighting Machinery, Hand and Power Washing Machines, Grain Elevators, Pump Jacks, Small Threshing Machinery, Engine Gang Plows, Belting and Threshers' Supplies. Don't fail to see us when you come to the BONSPIEL.

Write for Our
Remarkable
PRICES

Gasoline Engine and Supply Co., Ltd. 104 Princess St.
Winnipeg, Can.

are the following: Gas engines, fanning mills, blacksmith's portable blower and forge, sectional book case, roll top desk, weeders, libraries and other valuable articles.

The home economics section of the prize list has also been greatly enlarged.

Copies of the programme and prize list, an illustrated 24 page booklet, may be had on application to the Extension Department of Manitoba Agricultural College.

New Oil Warehouse on the Portage Plains

We reproduce below a photograph of the plant recently erected in Portage la Prairie, Man., for the Canadian Oil Companies, Limited. The property used by the company is situated on Trenton Avenue, East, about one-half miles east of the Canadian Northern depot.

The plant is now practically completed and is conceded to be the finest oil warehouse west of Winnipeg. Portage la Prairie, the centre of the Portage Plains,

is really a community of farming interests, and the plant was erected to serve the agricultural requirements in that district.

Self-measuring graduate tanks—patent valves—double acting electric rotary pumps, etc., which are installed in the plant, all go to show that no expense was spared to make the plant as modern as possible.

The farmers in the Portage district, who have tank wagons, will be greatly benefited by being able to see exactly how much oil goes into their wagons and extra quick service is promised in every department. "Quality First" is the company's slogan, and the combining of this with service will unquestionably make this Portage plant a busy centre.

The company extends a cordial invitation to anyone interested to pay the plant a visit and see for yourself just what a modern oil plant looks like.

Making Small Springs

Small springs are often wanted in a hurry, and it is worth while

The Pole Saw For You



—Watson's. Built on a firmly brace, rigid hardwood frame, with three 5 in. by 6 in. pulleys; solid, heavy fly wheel, hanging well clear of poles, and a perfectly tempered, flawless English Steel Blade.

We Sell:

Wood Boss Harrows, Steel Boss Harrows, Channel Steel Harrow Carts, Root Pulpers, Straw Cutters, Pulverizers, Grain Grinders, Turnip Seed Sowers, Pole and Cordwood Saws, Wheelbarrows, Horse Powers, Doubletrees and Neckyokes, Heider Eveners, Bevel Jacks and Sleighs.

JANESVILLE FLOWS

Repairs for all
MOLINE GOODS

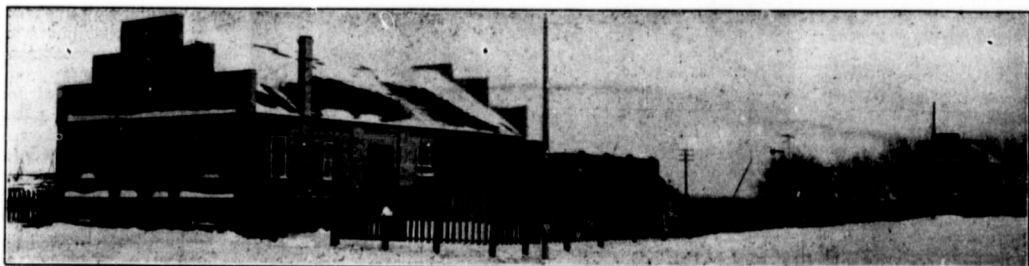
John Watson Mfg. Co.

311 Chambers Street Winnipeg

knowing the following very simple method of manufacturing them. The requisites consist of a threaded bolt, the same diameter as that of the repaired spring, and a supply of steel wire of the requisite gauge and strength. For light springs, piano wire comes in very useful, but for stronger ones a small supply can be obtained from a tool shop or a garage. It

is no use, however, expecting to make inlet or exhaust springs by this plan, as heavy wire of this nature requires special treatment.

A suitable bolt is held by the head in the jaws of the vise, but before the vise is tightened up, one end of the wire is gripped between one of the faces of the bolt head and the vise jaw. The loose portion of the wire is now held



PORTAGE LA PRAIRIE PLANT OF THE CANADIAN OIL COMPANIES LIMITED

firmly in a pair of strong pliers and made to follow the convolutions of the thread, care being taken to see that the wire beds down well into the bottom of the V. The tension of the wire must never be slackened until the winding is complete, and if there should be any tendency for the wire to rise out of the V it should be lightly tapped with a hammer which will assist in making it take the required form. When the spring is finished it is removed by unscrewing it off the bolt. As it is rather difficult to keep the wire in the absolute bottom of the thread, springs made in this fashion are usually slightly larger in diameter than the bolt which forms the mandril. The ends of the spring are easily bent into hooks for threading through holes on carburetor levers, etc.

What Gasoline Is

Gasoline, George Fitch tells us, was originally used only for cleaning gloves and ejecting hired girls through the kitchen roof, but has now been taught a great variety of interesting tricks, such as running automobiles, aeroplanes, motor boats, windmills, street cars, hearses, corn shellers and bicycles.

By the aid of gasoline we can travel 60 miles an hour through the air, 15 miles an hour over the land, and six feet into the ground with the greatest ease.

A gallon of gasoline can do as much work in an hour as a horse can do in a day, and it doesn't have to be fed and bedded down at night. It can drive an automobile twenty miles and while doing this cause three runaways, a collision, a \$20 fine for speeding, a divorce suit and an inquest.

A gallon of whiskey at a Saturday night dance can cause a great deal of trouble, but it is tame and kittenish beside a gallon of whiz-water in conducting a joy-ride.

Gasoline is a clear, nervous liquid which is composed of speed, noise and trouble in equal parts. It is made of kerosene reduced to a more violent stage, and is kindly supplied to the restless portion of mankind by the famous Standard Oil Co.

"Solid" Alcohol

The so-called "solid" alcohol that is on the market is a really convenient form of fuel for use in spirit lamps by travelers and explorers, in the sick-room and the like. It is not, however, at all economical when compared with ordinary fuels, or even with denatured alcohol. The various brands offered for sale are not usually alike in heating power, and only a practical test will show which brand gives the most heat, that is, burns the greatest number

Massey Harris New No. 11 Drill

The Only Drill with Steel Grain Box

THE greatest improvement in Grain Drills in many years is the STEEL GRAIN BOX which places the already popular Massey-Harris No. 11 Drill in a class by itself.

Every detail in the Design and Construction of this Box has been worked out with the greatest care, and has made necessary a large outlay for Punches, Jigs, Dies, etc., for cutting and punching the immense sheets of Steel and forming them into shape.

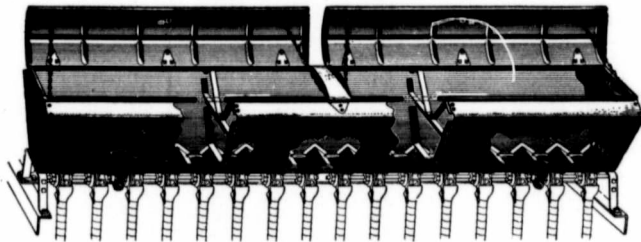
The Bottom, Sides and Hips are formed from a single piece of heavy Sheet Steel. The Pressed Steel Ends are securely riveted in place, then the edges are rolled round a Steel Bar extending entirely around the top edge of the Box. Angle and Flat Steel Truss Braces

inside the Box brace the Sides and give a solid mounting for the Raising Levers. The 14 and 16 Run Drills have two of the Braces as shown in cut—the larger sizes have four of these Braces, making an exceptionally rigid construction, so necessary to the proper working of the Drill.

The Cover of the Box is in two parts, each of which is pressed out of a single piece of Steel, ribbed so as to give the necessary stiffness. As the Lids fit down over a raised edge on the Grain Box there is no chance for rain to leak in.

At one end, inside the Grain Box is a convenient Tool Box.

This is the largest Grain Box on any Drill, thus avoiding the necessity of re-filling so frequently



Winnipeg
Regina
Saskatoon
Yorkton

Massey-Harris Co. Ltd.

Calgary
Edmonton
Swift Current

A Simple Oil Test

of hours for the same cost. There seems to be no use as yet of solid alcohol as a fuel for motor engines, as the ordinary brands leave a solid residue after burning, and those that leave no residue are far too expensive.

By adulterating a poor quality of mineral oil with resin or resin oil the oil may be made to resemble the superior quality, as regards density, viscosity, color and

general appearance. The following two tests will serve to indicate whether an oil has been adulterated or not. Take a quantity of the oil and heat to a temperature of from 400-500 degrees F. If any fatty oil is present it will decompose before this temperature is reached, and its presence will be indicated by a bad smell. Another test for the detection of adulterants in mineral oil is to mix a portion of the sample with an equal quantity of fuming nitrate acid. If at the end of a few hours the sample is still fluid it has been

adulterated, and should not be used.

**Pathe Pathophones
Diamond Double Discs**
No needles to change. Unwearable records. At last! All gramophones can play without needles.
ABSOLUTELY FREE

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Plays
all makes
of Discs
\$22.50
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Diamond
Discs
Perfection
on both
sides.
Price: .75

Fits instantly any gramophone. Jewel Reproducer given absolutely free. Write for particulars and catalogues.
The Canadian Phonograph & Sapphire Disc Co.
605 Builders' Exchange Building, Winnipeg, Man.

A Sensible and Much Needed Appointment

One of the happiest "happy thoughts" of the Manitoba Department of Agriculture was that which created an editorial chair in its publications branch and seated on it our friend and erstwhile colleague, Mr. George Batho, for many years editor of The Northwest Farmer.

The Department is loaded with all sorts of priceless information, the results of its own investigational work and what it has gleaned from other sources, but it is doubtful whether it has ever been equipped with proper facilities for unloading this mine of wealth upon the farming community in such shape that it will command the attention and interest of those it is designed to benefit.

To overcome this defect and keep the "lines of communication" at the highest pitch of efficiency, no better head could have been selected than the man whose picture we have great pleasure in reproducing herewith.

By natural temperament and lifelong habit, Mr. Batho is peculiarly fitted to head off any intelligence department and we heartily congratulate the department in the selection it has made. We trust he will receive



GEORGE BATHO,
Editor of Publications, Manitoba Department of Agriculture

the unstinted support the importance of the work should receive and which we know our friend is in every respect entitled to.

Mr. Batho is a "demon to work"; he is blessed with more than an ordinary share of common sense—has a mass of miscellaneous information carefully filed away in his brain; he has had a long all-round experience of every phase of "mixed farming," horticulture domestic science and bees; he is somewhat (intermittently it might be) addicted to poetry and is considered "great" on insect pests.

One of the most obliging and lovable souls to work with, we can say, after a fairly close companionship in harness for over two

years that we never found him out of temper. To this we can add with perfect confidence that in his new sphere he is not likely to "turn a hair" as a result of the most persistent inquiry or battery of interrogations that may be fired into his "trenches" on Kennedy Street.

Mr. Batho's personality and worth, his long experience in agricultural journalism are too well and widely known to necessitate any comments whatever on our part, but in making the change we could not deny ourselves the luxury of this opportunity just to say how delighted we are.

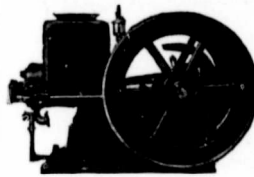
A Poultry Boom

We have great pleasure and every confidence in recommending our farmer friends, their wives and young people who have an itching to get at the last cent they can secure for the live poultry stock to send them into the Golden Star Fruit and Produce Company of Winnipeg.

We are personally aware of cases in which the treatment of their customers has been eminently satisfactory. Their financial standing is beyond question, and their business methods are prompt and leave nothing to be desired in meeting every reasonable expectation. Their quotations are guaranteed against reduction, and in the event of the market rising subsequently and before the increased figures are advertised, the poultry shipper positively receives payment on the top market prices.

COMPLETE CRUSHING OUTFITS

5 H.P. Engine, with Crusher and Rubber Belt, \$161.00 | 7½ H.P. Engine, with Crusher and Rubber Belt, \$233.00



Stover Grinders

Low down, well built. Crushes every seed. Fine or coarse plates.



Give numbers and letters stamped on share—and name of plow—we do the rest.

We handle: Pumping Engines, \$38.50; Washing Machines, \$22.00; Cordwood Saw Frames, \$18.00; Power Straw Cutters, \$35.00.

The Engine You Really Need

Price \$195.00, 7½ Horse Power. This engine will use less fuel than any engine of the same rating and is guaranteed to develop more horse power than any engine of the same, or nearly the same, rating. Sold anywhere. Webster Magneto, extra price, \$12.50. Better Engines are not made.

Guaranteed Plow Shares

12-in. Shares	each \$2.00
13-in. Shares	each 2.25
14-in. Shares	each 2.25
16-in. Shares	each \$2.50



Celebrated Eclipse Plow

1915 Prize Winner at Plowing Matches.

12 inch Gang	\$65.00
14 inch Gang	67.00
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We Handle:

Wheel Barrows; Pulpers; Pump Jacks, \$5.50 and \$7.50; Saw Blades, \$5.50 each; Dry Cells, 35c. each; Grinder Plates—7in. \$1.50; 8in. \$1.65; 10in. \$2.00; 12in. \$2.25; either Concave or Flat Blow Eveners; Harrow Teeth 6c. each.

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BRANDON, MANITOBA

Farmers' Friend Boss Harrow

\$12.00



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We are responsible for every part. All wood used is solid high grade oak, including draw bars. Why take ordinary soft wood found in other makes? We cut 20 feet wide. Later on you will want a light weeder harrow to use on your fields. We make them to fit all our draw bars, which will mean a further saving to you. Our line of harrow and packer plow attachments is the best made.

Write for our "freight-paid" proposition at once

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This company has had a continued record of success in handling poultry since its inception some years ago. Honest and absolutely fair dealing has been the corner stone on which it has built up the extensive and

widely distributed connection it enjoys among the poultry farmers of Western Canada, and, as we have already said, the Golden Star Company can be relied on in every respect to render a square deal in anything entrusted to it.



Shipments of Live Poultry in the Establishment of the Golden Star Fruit and Produce Co.

What Canadian Sport Means to the Investor

THE air of Western Canada is as strongly impregnated with the sporting instinct that breeds and develops great men as its soil is charged with the humus that has made it the bread basket of the world.

Who and what is the character of that indomitable sporting man Johnny Canuck, as distinguished from the sharper of the race track and the cad of the gambling den? He is the fellow who positively saved the day for France and for his own British Empire at St. Julien, Langemarck and Ypres. Amid clouds of poisoned gas when the less resistant elements of a softer climate were compelled to fall back in disorder, did not the boys of the Western prairies "stick it out," and write a page in British history that has no parallel?

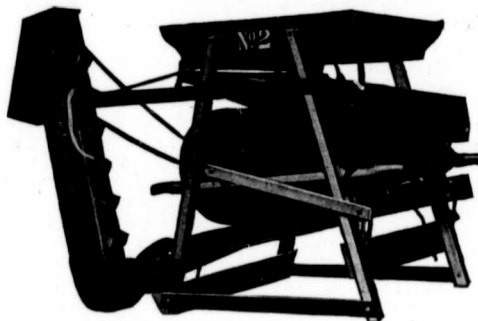
They are no tender-footed flannelled fall-backs who are now perpetuating that matchless example in the trenches of France and Flanders. These are men who know nothing between death and victory but uncomplaining endurance. The muscles of their whole physical and moral make up are as sinews of steel, tempered to stand anything that mortal flesh can bear and human patience may hold on to, as the Scotch pithily put it—they have been trained to "thole."

It is the freedom and vim of their glorious national life that we have to thank for the character of those heroes. The best men of our football fields, of the baseball, hockey and lacrosse teams dropped their tools of sport the moment they scented the battle from afar and no units of our fighting millions have carved out a more brilliant record.

The crack riflemen on the firing line have been our young Nimrods of the Riding Mountains, the "dead shots" who stalked their quarry in the moose haunts of Saskatchewan and Alberta, the boys who were born snipers and got their training years ago hunting big game on the slopes of the Rockies. In short—what Canada has done and will continue to do at the front is due more than anything else to the real spirit of sport that fires the souls of her brave sons.

There's probably not a game or species of sport engaged in by men, women and young folks that does not have its representative club of enthusiasts in this wonderful West of ours. The cosmopolitan nature of our population accounts for this. There isn't a population like it anywhere else on the face of the earth, and men who know declare that Western Canada is the greatest

**COCKSHUTT
NEW WONDER GRAIN CLEANER**



Some Special Features on the New Wonder

The AUTOMATIC FORCE FEED can be regulated to a nicety by a hand wheel and feed screw and stops when the mill stops without altering the adjustment.

EXCELS IN SEPARATING WILD OATS and other foul seeds. The arrangement of the screens with perforations and blanks traps the wild oats making it impossible for them to drop through with the good grain.

SPECIAL CLEANERS on the lower shoe, brush the underside of the screen, keeping it clear so that the last bushel is as clean as the first.

ADJUSTABLE SHAKE ON SHOE. It is the only mill on the market with a graduated adjustment of the shake on the upper and lower shoes. This is a very important feature

as more shake is required on the upper screens when cleaning dirty grain than comparatively clean grain. More shake is required when cleaning seed grain than grain to market. Less shake is required on both shoes when cleaning flax, grass seed, etc., than in cleaning wheat, oats or barley. This feature is fully protected by patents.

Full directions for operating the mill and adjusting the shake are attached to each mill.

PRICE F.O.B. CARS AT	WINNIPEG	REGINA	SASKATOON	CALGARY	TERMS CASH
No. 2 Mill, 22 inches wide	\$32.50	\$33.00	\$33.50	\$34.00	
BAGGER complete	8.50	8.50	9.00	9.00	

The New Wonder will clean and grade perfectly and has greatly increased capacity. See our nearest agent and get prices or send in the cash direct and we will give your order prompt attention.

A demonstration of the cleaning qualities of the NEW WONDER will be given in our Sales Room, corner of Alexander and Princess Streets, during the Winnipeg Bouspiel. Come in and see it.

COCKSHUTT PLOW COMPANY, LIMITED

WINNIPEG BRANDON REGINA SASKATOON CALGARY EDMONTON

sporting-field in either hemisphere.

In the city of Winnipeg alone there are between 400 and 500 organizations in the various departments of sport and athletics, and there isn't a town or hamlet that does not boast of its team. Think of what the roaring game of curling calls to Winnipeg during its Bouspiel carnival!

If it could be arrived at, it would be interesting if not astounding to know what all this means in money spent on sporting outfit and supplies for the different games, and how much of this money passes out of the country that might well be employed in building up its own fabric of self-contained business life.

With a keen appreciation of what is going on, and having an eye to what the future will assuredly mean when our boys are home again and the tide of immigration has again set westwards, a few business men have organized under the name of the Merle-Peters Arms, Limited to conduct a high class wholesale and retail sporting goods business, with headquarters at Winnipeg.

The management and directorate of this company are men of the highest repute for business integrity and judgement, who have made a conspicuous success of their own affairs, and are therefore to be trusted with the confidence of those who are seeking a safe and a substantial earning capacity for their savings.



Comfort Felt
TRADE MARK REGISTERED

**THE ONLY SATISFACTORY
SUBSTITUTE FOR PLASTER**

What is more, it is

75% CHEAPER

A thick, heavy, pure wool felt—known and extensively used all over the West instead of plaster and also as deadening felt. It is positively the

PEER of them ALL

Remember there is no other brand "just as good." Therefore insist on your dealer giving you the genuine "Comfort Felt"—if he does not carry it, write us direct

Samples cheerfully furnished

**O-RIB-O Manufacturing Co.
LIMITED**

Successors to Fred J. C. Cox & Co. Winnipeg, Man.

They start in with the advantage of the experience in success or failure of other businesses of the kind to draw upon, but no one can have the remotest misgiving as to the unique field for anything of the kind in Western Canada, a field in which there is practically no competition.

As it belongs essentially to the category of luxury every detail in the "sporting" trade commands a profit far in excess of anything that may be put on any of the

staples of life. The earning capacity of the business, therefore, under commonsense management cannot fail to gratify the most exacting investor.

The public are assured that there is no "promotion stock" in this company, nor is there any bonus stock. Every member joining the organization, from the Board of Directorate down, is paying full par value for his stock. Full particulars will be found on page 23.

A WOMAN'S TALK TO WOMEN

-By-
LILLIAN BEYNON THOMAS

Women are Rejoicing
The Russian people are beginning to investigate the results of the total prohibition of vodka. The statistical bureau of Kostrome sent out queries to six hundred people in different parts of that district, and asked them to answer frankly as to whether the people were better or worse since vodka was not to be had. The answers are very interesting, especially in Manitoba just now. And one answer is of special interest to the women.

The correspondents were not asked whether conditions were better or worse for the women, but many of them wrote, that the rejoicing among the women was general. "The women are rejoicing," they said. "They see light, and hope, and redemption. God has heard their prayers. Their country is no longer dark and drink sodden."

One correspondent said, "O God let our government understand the necessity of permanent prohibition, because from this hellish poison Russia was on the verge of ruin."

Five hundred and one of the correspondents replied to all the question asked, and of that number over ninety-three per cent were positive in their assertion that the results had been good and very good. The economic condition of the people is so much better that many assert the bad effects of the war are not felt. The bad harvest has not caused any suffering because the people are so much more industrious that they are really better economically than in former years when the harvest was good.

Russian peasant men had a great habit of going away to work and never returning to their families. Since the prohibition of vodka most of the men return, and many men who have been away for years came back, bringing money with them. The results of temperance have been good. The men are well dressed and have self-respect, and most of the correspondents think the majority of the peasant class men could not have stopped vodka themselves.

The correspondents were asked if the peasants were using substitutes for vodka. Four hundred and fifty-six of the correspondents said they had not seen substitutes used, seventy-nine said they had, and sixty-five did not reply to that question. The general opinion seems to be that some used substitutes at first in a spirit of bravado, but that substitutes were being given up except by those

that the correspondents in their picturesque language call, the lost men, meaning political drunkards.

Crime in Russia has been lessened, and in some places the police have nothing to do. Then public meetings brings out the best in the people, for now they discuss public questions with a clear brain, where before they would sell anything they had for vodka. Now they are regarding their citizenship as something of greater value than a drink. The correspondents realize that it is too soon yet to know the full results of prohibition, but the great majority are confident that they will be good.

It is some time since the thoughtful people of Russia realized that vodka was the great national weakness and that sooner or later the problem of prohibition had to be faced. The war gave the excuse for total prohibition, and while some still long for vodka, especially on holidays and at weddings, the great majority of the people, even the peasants themselves, realize the evil it was doing, and already the great majority would regret to see the old condition restored.

Women as Martyrs

Every heart is stirred when the story of a martyr is told. It is such a splendid thing to have given all, made the great sacrifice for a cause dear to the heart. It takes courage, and an unflinching

conviction, to enable one person to stand out alone, against public opinion. Yet people have done it, have given their lives, and only long years after they were gone did people realize that a special vision had been given to the one who had suffered.

Yes, it is a splendid thing to have stood for the right, but there is a kind of martyr that I meet as I go through the country, who does not stir my heart. A martyr who fills me with an unholy desire to say some very unkind things, and as a rule these self-made martyrs are of my own sex. Women have a habit of being martyrs, at least some women have, under the most remarkable circumstances. In fact a study of these martyrs convinces one that many women like the part.

There is in many homes the woman who is a martyr to work. Such women like nothing better than to talk of the amount of work they have accomplished in one day. They tire themselves out, until their nerves are at a ragged edge, and they expect he whole family to unite in sympathising with them, because they are so tired. As a rule such women reject the idea of having help in the family, because a maid is more bother than she is worth, at least, so they say.

Other work-martyrs complain that their husbands and families do not realize what a lot they have to do, and never think of getting help for the house. As some wo-

men put it, "My husband never thinks of me." It would be interesting to know how many of these women think of their husbands. How many urge their husbands to get a man to help them. Of course, many of these women will tell you that their husbands do not need any urging. They always get help when they need it. Well, why shouldn't they? So should the women, and the majority of them would, if they realized that their part of the business on the farm is even more important than the business of the man. If the housekeeping is not well done, if the mother is too tired to make the home pleasant, then she is making a failure of her part of the business, and she should get help; and if her husband is not thinking of her she should make him. The reason housework is despised is that women themselves do not respect it.

If I was a farmer and was looking for a wife, I would make sure that the girl was not likely to revel in being a martyr before I asked the important question. If she was, if she showed the least pleasure in being worn out, I would avoid her. I certainly would. I have been in homes where the work was never done, and the woman was constantly seeking sympathy because she was so tired, and she got quite sulky and nasty when she did not get it. Sometimes she needed sympathy because she was not well, but her demands were so constant that she never got the real thing.

Then there is the house-slave. The woman who is a martyr because she never gets out. No, she never goes out she tells you. She cannot get away, for under no circumstances will she neglect her work. The floor has to be scrubbed twice a week, the house swept, dusted, house cleaned, baking, done washing, ironing, churning, yes everything on certain days, and she is so upset if it is not, that she cannot have any pleasure and neither can any one else near her. I heard a man say a few days ago, "I took my wife to the theatre last week, and we left the children with a perfectly reliable woman, but my wife fretted and worried all the time so that neither of us had any pleasure. I will not take her again."

Many women may think I am rather cruel and hard, but nobody can better the condition of women but themselves. This week I read the experiences of two women that interested me. One

Electric Light for Country Homes
AN INVESTMENT - NOT AN EXPENSE

The Matthews Automatic Light and Power Plants are designed to meet the special requirements of the Western farm home. They are guaranteed by one of the largest producers of electric lighting systems in the world, are automatic in operation, all danger from fire due to lamp explosions is eliminated, and more, better and cheaper light is generated than it is possible to get from any oil or gas system. This system of lighting is the result of nearly twenty years' experience. Its business is to make light and power. It will make light for your house, barn and other out-buildings; will heat a flat iron or toaster, operate a washing-machine, water-pump, cream separator, churn, warming pad, etc. With this system any farmer can have as good lights and just as many conveniences as the city home enjoys. Let us send you our booklet "Electric Plants" which is fully illustrated and gives complete information about this system.

We also supply and install water systems and automatic pumps for country homes. Don't forget our street address when writing.

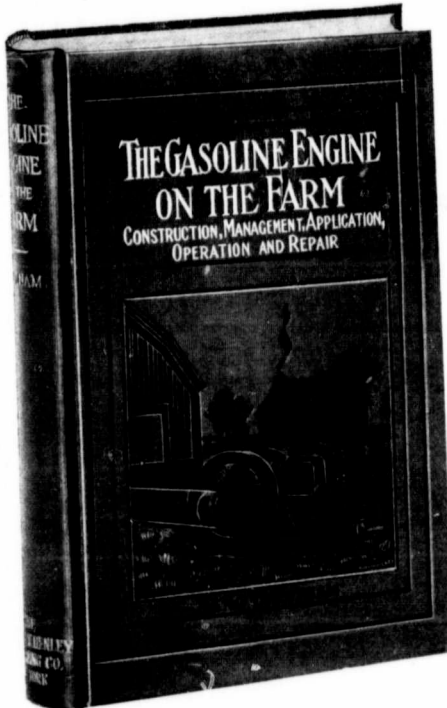
The Power Light Company
247 McDermot Ave., Winnipeg, Man.

GOOD LIGHT
BETTER HEALTH
POWER FOR FARM
FREEDOM FROM FIRE
AUTOMATIC WATER PUMPING

Completely Automatic! STARTS RUNS OILS REGULATES STOPS **Itself!**

HAVE YOU A GAS ENGINE?

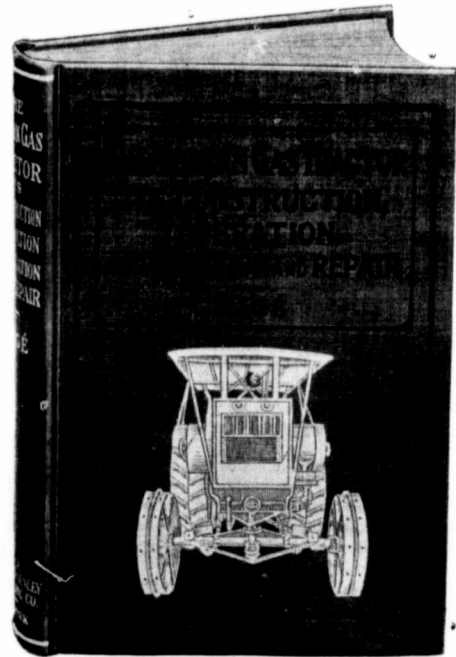
IF YOU HAVE, YOU WILL NEED ONE OF THESE



600 Pages
Hundreds of
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Both Books are the best of their kind published



This is a Complete and the least expensive Course in Gas Engineering, it is possible to acquire. \$2.50 and no more application than you give to the ordinary winter sports will enable you to thoroughly master and handle any engine.

READ THIS SAMPLE CHAPTER:

CHAPTER XII—Lubrication.

Importance—Purpose—How Lubricants Work—What a Lubricant Is—Viscosity—Fluidity—The Flash Point—The Cold Test—Carbon—Gum and Acids—Variety in Lubricants Needed—Gasoline Engine Cylinder Oil—Bearings and Their Requirements—The Specific Purpose—Animal and Vegetable Oils—Mineral or Hydrocarbon Oils—Testing for Acids—Testing Viscosity—Testing for Adulterants—Testing for Gum—The Flash Point—The Fire Test—The Cold Test—Carbon—Oil Waste and Engine Waste—Quantity of Oil—Lubricating System—The Gravity System—The Splash System—The Loose Ring Method—The Pressure System—The Positive or Force Feed—Oiling Through the Carburetor—Filtering—Other Lubricants—Graphite—Grease—Foolish Economy—Ten Lubricating Commandments.

An idle engine means wasted money, and an engine that is idle through want of repairs is doubly so. You positively cannot have your gas engine break down from any cause that is not thoroughly explained in this book.

The Gasoline Engine on the Farm and The Canadian Thresherman and Farmer **\$2.00**
One Year

A complete treatise describing all types and sizes of gasoline, kerosene and oil tractors. Considers design and construction exhaustively, gives complete instructions for care, operation and repair, outlines all practical applications on the road and in the field. The best and latest work of farm tractors and tractor power plants.

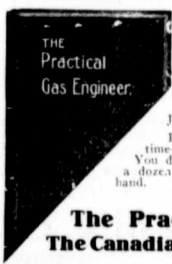
A modern exposition in the language of the field showing and describing every recent improvement in tractors and auxiliary appliances. All money making farms use power. Learn how to apply it now.

THERE ARE A DOZEN CHAPTERS—HERE'S ONE.

CHAPTER V.—Making and Exploding the Gas.

The Liquid Fuels—Gasoline—Kerosene—Alcohol—Elements of Carburetion—Simple Mixing Valves—Float Feed Carburetor—Action—Automatic Carburetors—Parts of Carburetors—Typical Gasoline Carburetors—Carburetor for Two Cycle Engine—Action of Kerosene Vaporizer—Methods of Exploding Charge—Advantages of Electric Ignition—Methods of Producing Current—Dry and Storage Batteries—Function of Induction Coil—Producing Spark in Cylinders—Mechanical Generator Advantages—Types of Magnetos—Oscillating Armature Forms—Types with Revolving Armature—True High Tension Device—Low Tension Ignition System—Simple Battery Ignition Methods—Action of Magneto Ignition System—Tuning the Spark.

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ONE YEAR'S SUBSCRIPTION TO THE



The Practical Gas Engineer

The book of 545 points. Hundreds of these are now giving satisfaction to western farmers. See page three, January issue for full description.

Don't envy the man who keeps his engine humming all the time—get one of these books—FREE, and know how yourself. You don't have to stay up late at nights studying it. Just read a dozen words or so as you need them to clear up the point in hand.

The Practical Gas Engineer and The Canadian Thresherman and Farmer **\$1.00**
One Year

E. H. HEATH CO., LIMITED, WINNIPEG, MAN.

I enclose \$ Please send me The Canadian Thresherman and Farmer for one year and the book.

Name

Town P.O. Box

Province Our No.

A Woman's Talk to Women

Continued from page 18

woman said her resolve for the new year was that she would not be a door-mat woman any longer. She was stirred out of her martyrdom by a friend who was going through the neighborhood and called to see her. Her friend found her scrubbing a large kitchen floor, that was not painted.

She was glad to see her friend, and showed her the beautiful dresses she had made for her daughter. She spoke of what her husband was doing, and of her dreams for her son. She could not show her own clothes, for she hadn't any good ones, and she did not talk of her work for she did not do anything but slave and work and wait on the rest of her family. Before the friend left she said, "A woman is valued just as highly as she values herself. What do you think your value is here?"

The woman says she thought much over what her friend said, and she began to look at herself as she must appear to others. She noticed that her son and daughter ordered her around as they would a servant. Her husband called on her to get his spectacles and his evening paper after he sat down to rest. She did not blame her family. She realized that she had set the pace. She valued herself no higher than a servant and the family accepted it. Yes, people do not value others higher than their own valuation.

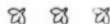
This woman says she startled her family by announcing that she was going away for a week. She says she went, and she bought herself some things she had been wanting for years, and she went to a theatre, and then she returned home and insisted on her daughter doing her share, and her son waiting on his mother, and her husband was made to realize that his wife had her own life which she insisted on living. This woman closes her account by saying that her son and daughter now invite her to go out with them, and her husband is sure he has the best wife in the world.

The Other Woman

The other experience, is the experience of a woman, who was made to see herself as others saw her by the other woman. The other woman came to the district. She was bright, attractive and winning. The wife was forced to realize that she had a rival in her husband's heart. She then sat down and tried to see herself as others must see her. The picture was not very attractive. She had not cared for her personal appearance, she had not read, or interested herself in the things that her husband was interested in. She had made of herself nothing but a body servant for her family.

The other woman was bright, and possessed grace and charm

that the wife lacked. The wife studied the other woman. She invited her to the home. She smiled while her heart was breaking, but she was making a fight for her own. And she won, but she is a different woman. She now values herself, and she is anxious to make the best of herself, not only for the pleasure that comes with the accomplishment, but because of the man, who is to her the best man in the world.



First Chauffeur—"This recommendation from your last employer doesn't speak very highly of you."

Second Chauffeur—"Well, I'm a modest guy. You see, I wrote it myself."



FIGURE IT OUT

LITTLE DEVIL CARRIES NO GASOLINE TANK
It Runs On Kerosene Only
It's Simple--It Lasts

FIGURE IT OUT, MR. FARMER:

Kerosene is 60% cheaper than gasoline, and gasoline is still "going up." Little Devil has a valveless motor, with hundreds of less parts to wear out and tear out, that is especially designed for kerosene. You can buy it only in the Little Devil.

FIGURE IT OUT:

The man with the pair of horses requires four days to do what the Little Devil will do in one. To do the work in the same time would require four men with eight horses, and farm hands are usually at a premium when they are needed most, while horses are often "blowed" at the emergency.

FIGURE IT OUT:

Little Devil needs no grooming, eats only when working, while your horses consume one quarter of your produce and work an average of but three hours a day.

FIGURE IT OUT:

Little Devil is built by the founders of the oil and gas tractor industry, 90% of whose first years product are "still in the ring."

FIGURE IT OUT:

Just what power your farm requires. We build Old Reliable 60; Oil King 85; Crop Maker 47; and Little Devil 22—a size for your farm is among them. All burn kerosene. We'll help you figure it out. Get acquainted with the Money Maker Separator and its exclusive features. We have a size for the Little Devil. Write today.

HART-PARR COMPANY, Portage La Prairie, Regina, Saskatoon
 Home Office: Charles City, Iowa, U. S. A.

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

Cast Iron Breakages Welded

We can save you many dollars—not to speak of loss of time and endless vexation—if you will send us all your metal breakages. We can do any repair job that can be welded by the Oxy-Acetylene process in Cast Iron, Steel, Bronze, Malleable Iron, Cast Steel, Copper, Aluminum.

**WE OWN AND OPERATE THE
 Oldest and Largest Oxy-Acetylene Welding
 Plant in the West**

Do not hesitate to send us your Broken Cylinders, Cylinder Heads, Connecting Rods, Crank shafts, Engine Beds, Bull Pinions, etc. We will return them as good as new, and stronger, where mended, at a great saving.

We do not attempt to repair certain castings on which a saving cannot be effected. Send your inquiry now. Do not wait until Spring before you have your work done. We will be pleased to give you figures on any work before sending to us.

ENTRUST US WITH YOUR WORK, SATISFACTION POSITIVELY GUARANTEED.
 ALL INQUIRIES PROMPTLY AND CHEERFULLY ANSWERED BY MAIL.

Manitoba Welding & Mfg. Co.
 58 Princess St. (Estab. in 1911) WINNIPEG

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

IF NOT FOR THE FARMER, THEN WHO?

Continued from page 7

affairs will undoubtedly increase in proportion.

That the farmers consider the automobile a safe and satisfactory investment for their money was illustrated last fall in a Winnipeg salesroom. Do farmers consider the automobile a safe and satisfactory investment? Here is a case in point. A farmer sauntered leisurely into the building, and in a disinterested sort of way began looking at the machines. On being asked if he was interested in automobiles he replied that he had just sold his wheat for a couple of thousand, and didn't know of a better investment for his money than to purchase an automobile. An hour later he pulled out his roll of bills, paid cash for the machine and rode home in it, satisfaction showing in every line of his face. This is not an unusual proceeding in the salesrooms of all of the better makes of automobiles, and by the large number of machines placed in the hands of the farmers during the last year, it is plainly evident that the farmer of the grain belt is not behindhand.

The idea is gaining ground that the man of limited income may wisely purchase a motor car. It is no longer the rich man's plaything. But care must be used, not so much in selection, for all manufacturers are putting out machines of highest type, but in the keeping up of the car. It must be properly lubricated, must be looked over occasionally for loose bearings or parts, must be kept under shelter and it must be driven with care. A careless driver will wear out an automobile in a couple of seasons where a careful driver will use one for years and it will seemingly do as good work as ever. Running at high rate over bad roads, forcing the engine to its capacity all the time, and forgetting to keep sufficient oil to lubricate all of the parts, will ruin any machine no matter how well constructed. The upkeep depends upon the driver. By using forethought and applying simple methods known to every man who makes a study of his machine, the expense of keeping up a machine is very small indeed. A good driver does not tear around corners or start his machine with a jerk, or stop as if he had hit a stone wall. If he did he would ruin his tires and disarrange the mechanism of the machine generally, and would be likely to try his hand at putting it in order, which would be worse, when he does not understand what he is about. This sort of thing is what makes frequent trips to the repair shop necessary, and the owning of an automobile an

SPORTSMEN!
Put Your Money Where Your Interests Are!

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OF THE
MERLE-PETERS
ARMS LTD.
WINNIPEG

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MURRAY & NOBLE
Solicitors.
310 Sterling Bank Building,
Winnipeg.

GEO. A. TOUCHE & CO.
Auditors.
305 Electric Ry. Chambers,
Winnipeg.

CAPITAL STOCK
\$100,000

The Company are now offering
500 Preferred Shares at par.
Payable 10 per cent on application,
45 per cent on allotment of the
stock. The balance when
required in calls not to exceed
25 per cent at intervals of not
less than two months, on which
30 days' notice will be given.

expensive luxury. All machines to-day are built on general lines, strength and simplicity being the key-stone of construction, and the man who makes himself at all familiar with the different parts of his automobile and their right adjustment will have no trouble in operating his car, be it light or heavy.

The demand for automobiles within the limit of price which can be reached by the masses of people to whom they will appeal not only for pleasure but service, has become so fixed that the

A S YOU read this page, opportunity literally asks you to accept big returns later by investing a little money now. Buy an opportunity and sell an achievement!

NEVER WAS A COUNTRY more intended for sport than Western Canada. There is a sport suited to every day in the year, and the people are born with a liking for sport—covering everything from cards to big game hunting—that must be satisfied.

OVER \$3,500,000 WAS SPENT for Sporting Goods in Western Canada last year. Much of this money went to the States and Eastern Canada because the Western firms could not supply the demand. If a firm here could positively command only fifteen per cent of the business (over \$250,000) would it not pay you to put your money into the stock of that firm?

NO BONUS STOCK or promotion stock, and the fact that every shareholder is coming in on the same basis has attracted many high financial and business men of the West. They are investing their money, and not a few of them their full time also, into an enterprise now incorporated as Merle-Peters Arms, Ltd., to carry on a wholesale, retail and mail order sporting goods business. The need in this country for a company carrying all the equipment necessary—from a fish hook to an automobile—for the athlete and sportsman, has been recognized for a long time. This firm is especially fortunate in securing the services of one of the very few expert sporting goods men in the West.

UNBOUNDED CONFIDENCE

hardly describes the feeling with which these big men have at once seen the field for such a concern. 1916 is going to be a prosperous year from the sporting standpoint. You can, if you decide at once, reap large returns in dividends from a comparatively small investment placed now. You need only place a deposit of \$10 on each \$100 share to hold them until you satisfy yourself on every point. The further payments are in easy instalments. See the panel on the left. Read the coupon carefully; note that you take no risk. Also remember you are dealing with Winnipeg's foremost business men. Every man on the board is well known for his integrity and business acumen.

YOU ARE INVITED TO BECOME

a stockholder in this splendid company. This stock is now being offered to over two hundred clubs in Winnipeg alone for their acceptance, so it will be necessary for you to act without delay. It is not necessary to invest heavily—take only one or two or five shares—just whatever you feel you can afford. Every year sees one good investment. This is 1916's. Don't leave this coupon until it is signed and on its way. Put an X in the square which suits you best. You are under no obligation by sending the coupon for particulars only.

COUPON

MERLE-PETERS ARMS LTD., 315 Birks Bldg., Winnipeg.

Please send me prospectus and more information.

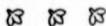
I enclose \$..... as a deposit only on..... shares of stock. In order that I may make full investigation, you agree to return my money any time within two weeks from receipt of this coupon. If you don't hear from me in that time, enter me on your books for the above stock and notify me to that effect.

Name..... P.O. Box.....

City..... Prov.....

We are also open to negotiate with responsible parties who might be desirous of disposing of small blocks of this stock on a commission basis.

manufacturers are doing their best to meet it by putting out a light-weight car and runabout which has proven satisfactory in every repair. The future is one of promise for the low-priced cars, and it is not beyond the means of the comfortably well-to-do farmers to grant their desires in this respect.



It Would Help Some

Tony came over from the old country and obtained employment in America as a section hand. Some time afterward he went to

his foreman and said: "Boss, I like haf vacation."

"Why, Tony, you don't need a vacation," answered the boss.

"Yes, boss, I like haf vacation," repeated Tony.

"What do you want with a vacation? If I give it to you, Tony, you will go over to the old country, blow all your money, and then come back broke. You had better stay here."

"I like half vacation, boss," stolidly repeated Tony. "I'm going to get married, and I'd kinda like to be there."



A COMFORT TO THE SOLDIERS

STAG CHEWING TOBACCO

The fine, rich flavour and lasting qualities of "STAG" have made this famous chewing tobacco a prime favorite all over Canada.

Our gallant Canadian boys at the front are enjoying its satisfying qualities.

SAVE THE COUPONS
GOOD FOR PRESENTS

Extract of a letter from a Corporal at the front to a Suffolk Clergyman:—
"What hurt us most" he writes, "was the poisonous gas, which made the air green and yellow, choking and poisoning men where they stood. Tobacco saved many lives in that battle. We began to feel choky, but put big chews in our mouths, and this caused us to expectorate the gas. Now whenever we notice the gas, we chew tobacco, which greatly helps."

Mixed Farming in Western Canada

Continued from page 10

Arranging the Farmstead

Where possible, it is advisable to take advantage of natural shelter for the farm buildings, and of any other natural peculiarities of the landscape that are favorable to making a comfortable, convenient farmstead. When the open prairie is chosen for a building site, one of the first things to be done is to start preparations for a shelter belt. The west side, being most exposed to winds, should be protected first and best, the east should also be well protected. The south may very well be left open or planted with only small shrubs or single ornamental trees. There are not many bad storms from the south, and that being the direction from which the low winter sun shines in, too much shade is not desired. A windbreak along the north should be planted, though a single row may do here where a heavier belt is needed on east and west. Trees are nearly always planted too close to the house. They should not be close enough to throw shade on the house. Planting near the house should consist of low shrubs and flowers. Windbreaks too close to the house and barns will cause large snowbanks to pile around the buildings. By having them placed a little further away and especially by having double windbreaks on the windy sides with open spaces between them, the snowbanks are piled up around the trees, and the yards remain open and clear.

Fig. IV illustrates this point. The two, two and a half acre plots, marked permanent pasture and small crops, will act as snow traps in the winter and catch all the drifts.

Buildings

The barns should be fairly convenient to the house, but not so close that the smell of manure will reach the dwelling house. The barns and other outbuildings should be arranged for the greatest possible convenience. On the ordinary farm a single large barn is better than two or three small ones. Where several barns are necessary, a good arrangement is to have them form three sides of a square, the open side being to the south.

It is impossible in one article to discuss plans of farm buildings in a comprehensive manner. So many varied requirements must be met on different farms that no one plan or set of plans would be of general use. It may be possible, however, to emphasize a few of the chief considerations in farm buildings. In the first place, they should be in keeping with the value and extent of live stock production on the farm. Over-equipment in the matter of buildings is a great temptation to the ambitious live stock man. It is better to be fairly modest than to undertake such expenditure on buildings that the interest on them is more than the profit made.

Convenience should be the object in arranging all barn and stable plans. The prospective owner should study all available plans and the buildings of others

and then arrange a building best suited to save steps and to house as much stock and feed with as little waste room as possible.

Two important requisites for the health of live stock that are often overlooked in building barns are light and fresh air. Light is obtained by putting in plenty of windows. There should be direct light shining onto every part of the stable some time during the day. High, tight partitions are barriers to light. The open iron-pipe style of stable fittings allows the rays of light to reach all parts of the stable.

Stable Ventilation

It has often been observed that a man who has had good success in raising some kind of stock in poor, draughty old makeshifts of buildings, finds his luck desert him after he moves into a new well-built stable. It is ascribed to

bad luck, but the real reason is bad ventilation. Whatever may have been the discomforts of the old shacks, they at least gave plenty of fresh air. The new stable, though warm and comfortable, is airtight and probably dark. Under such circumstances disease germs multiply and spread, and stock become unthrifty.

The system of ventilation which has proved itself to be more satisfactory is known as the Rutherford system, being a modification, and, for our cold climate, an improvement on the well-known King system. By the Rutherford system the fresh air is brought into the stable by an indirect route under the foundation of the wall and the floor until it is delivered in the stable at some point on the floor where it does not strike directly against an animal. The foul air is drawn off from the



Steam or Gas Tractors

Equipped with

PICKERING
THE GOVERNOR WITHOUT JOINTS

give greatest efficiency

FITTED TO EVERY BUILD OF ENGINE

Patent Ball Ranger Speed Changer Supplied on all Genuine Pickering Governors. Will increase speed 50% or more.

The Pickering Governor Co.

PORTLAND

CONN., U.S.A.



"Maltese Cross"



"Non-Skid"

SMILES OF SATISFACTION

beam from every corner and crevice of the face of the car owner who knows the luxury of

"MALTESE CROSS" TIRES

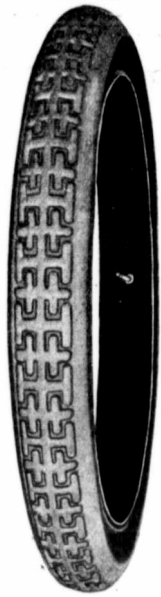
Their quality, comfort, and "Sense of Security" cannot be expressed in descriptive language. It cannot be appreciated till it has been experienced.

Look for the TRADE MARK on the Road

"The Tread Mark of Quality"

The latest addition to the "Maltese Cross" family is the "PARAGON"—a pattern tread at a moderate price

"Maltese Cross"



"Paragon"

NOT IN ANY TRUST OR COMBINE

Manufactured Solely by

Gutta Percha and Rubber Limited,

Factories: Toronto. Western Branches: Fort William, Winnipeg, Regina, Saskatoon, Calgary, Edmonton, Vancouver

ceiling as directly as possible to the peak of the barn. These shafts must be fairly large, at least 18-in. square, and should be double boarded with air space. If they are small or single boarded, the rising air becomes chilled on its way and quits rising, condenses and leaves the moisture on the walls of the shaft, thus stopping ventilation. These ventilators and also the intakes should be provided with dampers so that the circulation of air may be moderated in very cold weather, otherwise ventilation would be excessive and the stable would get too cold. Fig. V illustrates the Rutherford system of ventilation.

as low as 35 per cent. Good seed oats should give a preliminary count of 85 per cent to 90 per cent and a final (14 day) count of 90 per cent to 98 per cent of vital seeds. Samples of oats received from Saskatchewan are somewhat better. The average preliminary count is 50 per cent and the average final count is 86 per cent. Many samples show evidence of frost injury, these always giving low percentages of vital seeds, both in the preliminary and final counts. Alberta barley has also given low germination percentages. The average preliminary (6 day count) is 52 per cent, and the average final

(14 day) count is 70 per cent. These figures are very low and indicate that considerable proportions of Alberta oats and barley and Saskatchewan oats are weak in vitality and undesirable for seed purposes.

As one of the first essentials for a good crop of any kind is good seed, it is important that only seed with strong germination energy and high percentage of germinable seeds should be used. The germination energy of a sample is indicated by the percentage of seeds which germinate during the first four or five days of the test. The preliminary count therefore is an index of the

germination energy. If, for example, the preliminary count on a sample of oats is 25 per cent and the germination energy of the sample is very low, but if the preliminary count is 90 per cent the germination energy is strong.

Farmers should satisfy themselves before seeding time next spring that their seed grain is of the best quality. This can only be done by a germination test conducted either at home or at the Dominion Seed Laboratory in Calgary. Samples up to twenty-five in number will be tested at the Seed Laboratory free of charge for any individual or company in one year. Above this number twenty-five cents per test is charged.

Samples from Manitoba, Saskatchewan, Alberta and British Columbia for test should be addressed to the Dominion Seed Laboratory, Box 1684, Calgary, Alberta, and postage paid by the sender. It is unnecessary to send stamps for return postage. For wheat, oats, barley and seed of similar size, about half a tea cupful should be sent for test; for seeds of smaller size such as flax, red clover, timothy, etc., half this quantity is sufficient. If more than one sample of the same kind of seed is sent for test they should bear some distinguishing mark or number.

Seed Grains Should be Given a Germination Test

GERMINATION tests made on oats, wheat and barley this fall at the Dominion Seed Laboratory, at Calgary show that there are considerable quantities of oats and barley, particularly in Alberta and Saskatchewan which are unfit for seed. The average percentage germination for Alberta oats is 68 per cent, and none of the samples of Alberta oats received have germinated up to the standard which is 95 per cent. Moreover the average preliminary count which is made at the end of six days is



THE IRREPRESSIBLE

Tommy (on his way back from the trenches—to General's chauffeur): "Take'er 'ome, Chawles. We're walkin'."

Machine Shop Equipment

The modern farmstead will not be complete without a work room in which power machinery can be operated to do some of the odd jobs and the chores about the place. Every man wants to run as much of his machinery as possible by power, yet he does not care to transport an engine to each machine or to invest the money necessary to provide an engine for each machine. The use of a small system of line shafting with belts and pulleys has solved this problem for a number of people.

The electric light plant, the washing machine, the separator, the churn, the pump and other small pieces of machinery can all be run by one engine if shafting is used. A very common practice among those who have such an installation is to leave the electric generator belted to the engine all the time, so that the storage battery is being charged whenever any one of the other machines is running. Then on wash mornings, or whenever water is pumped, or when the separator is run morning and evening, the storage battery is being charged to light the house and barns after dark. Whenever two machines are run in this way by one engine it means that the power to run one of them is obtained for merely the price of the extra gasoline used, because there will be no more wear and tear on the engine in running the two machines than if it were only running one.

By removing the belts to the machines which one does not care to use, they can be left idle; then when another machine is wanted its belt can be put on the pulley, and away it goes. To stop a machine one only needs to throw off the belt. It's the simplest kind of control. No one would think of buying a separate engine for every machine; it would involve too much expense in the first place, and it would require a lot more room than would any other arrangement. For this reason much of this machinery is still run by hand-power. The installation of a line shaft and pulleys would cost some money, but not nearly as much as separate engines for each machine.

Some people have tried using a small portable engine and wheeling it around from one job to another, but for such small jobs as we have mentioned they soon give up in disgust. It takes so much time and bother to get the outfit rigged up that the convenience of having the machine run by power is negligible. So the engine is left with the light plant or the pump, and the washing ma-

chine and separator are run by hand.

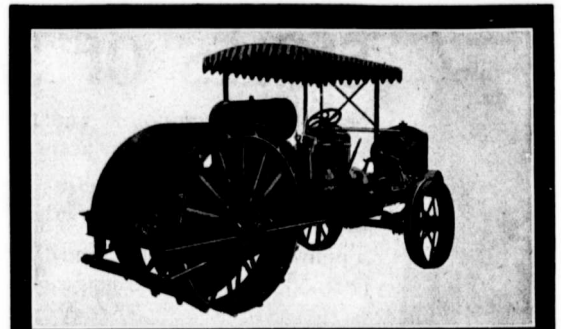
When this engine is belted to a line shaft and the rest of the machinery is conveniently located, the whole will make a work room that will be neat as well as convenient. The shaft, hung from the ceiling, is out of the way and gives the room a trim, businesslike appearance.

A line shaft for this kind of work is not hard to install, but it requires care and accuracy. The support for the hangers must be rigid, so it will not give or vibrate when the machinery is running. When shafting is hung from a support that is not rigid it is very noisy; its clatter is annoying and the vibrations of the hangers will shake the whole building, but if the shaft is hung properly and rigidly it will run very quietly.

The shaft must be hung level and true to line. If it is not level the bearings will give trouble; the oil will have a tendency to run out of them and the pressure will be localized, resulting in more friction than there should be and a rapid wearing of the bearing. If the bearings are not true to a straight line they will put strain on the shafting and wear it and the bearings out. A shaft on which the bearings are worn is always a noisy shaft, but a shaft that is installed properly in the first place and is kept well oiled will do its work faithfully and satisfactorily for a long time.

The bearings for the shaft are one of the most important things to consider in installing shafting. They must be close enough together to prevent the shaft sagging more than a very little bit under its own weight, the weight of the pulleys and the pull of the belts. In most cases, if the bearings are placed eight feet apart, they will prove satisfactory.

The size of the shaft to use depends upon the maximum horse power the shaft will be called upon to deliver and the speed with which it runs. A good, safe rule to use to determine the diameter shaft to use is as follows: The horse power that a shaft will transmit safely equals the number obtained by multiplying the diameter of the shaft in inches by itself twice, multiplying this by the speed of the shaft in revolutions per minute and dividing by 100. Solving by this rule we find that a shaft one inch in diameter will be good for two horse power when it is running 200 R.P.M., while a one and one-fourth-inch shaft running at 200 R.P.M. will transmit almost four horse power.



The Kinnard FOUR FURROW Tractor

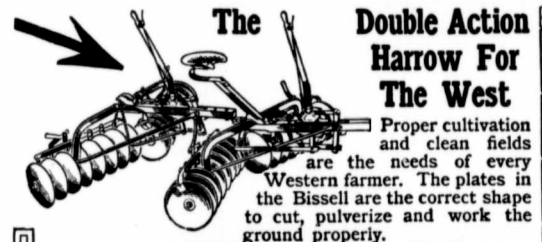
GET OUR NEW CATALOG

It illustrates our complete line of light and heavy duty tractors. The FLOUR CITY is the oldest in the field; its progress has been guided by the demand for a tractor of the highest efficiency on the farm. Its success is due to a concentration of practical features not found in any other design.

It is built in sizes suitable for small, medium or large farms. The "KINNARD" represents our smallest design. It will pull four plows, and is the most practical and economical size for the small farm.

If you are investigating you cannot afford to overlook the old, established FLOUR CITY line.

KINNARD-HAINES CO., 828 44th Ave. North
MINNEAPOLIS, MINN.



The Double Action Harrow For The West

Proper cultivation and clean fields are the needs of every Western farmer. The plates in the Bissell are the correct shape to cut, pulverize and work the ground properly.

BISSELL DISK HARROWS

Simplicity of construction, every part built for business, proper balance and the knack to get right down to perfect work make the 'Bissell' ideal for Western farms. These double action harrows have one disk out-throw, the other in-throw, giving two full width cuts. Connect up 4, 6 or 8 harrows with engine power for a large complete Disking Outfit. Write Dept. L

Manufactured exclusively by

T. E. BISSELL COMPANY, LTD., ELORA, ONT.

Write to any of the

Jan. Deere Plow Company's Branch Houses 78

McBEAN BROS.

We will not likely be issuing any more grain letters until next crop. Farmers wanting our ideas on market conditions should write us direct, and we will give them the very best information we can offer. All we have to say just now is: Don't sell your grain at track or street prices. We claim it will pay you big money to wait until you can get cars, and the longer you wait the better. There will be lots of cars in the spring and throughout the summer.

While Fort William and Port Arthur terminal elevators are congested, ship to Duluth or Superior IN BOND, notify McBean Bros., Winnipeg, Man., so we will be advised of arrival of car here and can check up grading.

Write us for full shipping particulars and other information.

McBEAN BROS.

Jan. 12, 1916

Grain Exchange, Winnipeg, Man.



Little Genius Power Lift Engine Plows



On the P & O Little Genius the lift device operates all three wheels, giving the plow a high and level lift. When the operator of a Little Genius pulls the trip rope he gets instant and positive action whether entering or leaving the ground. Nothing is left to chance—on raising the bottoms the powerful lift calls for but a small amount of traction (note absence of spuds on power wheels), and when entering the ground the whole weight of the plow is brought to bear upon the bottoms. The No. 2 Little Genius is made in two and three furrow with 12 or 14 inch bottoms. Any of the standard types of P & O bottoms can be furnished.

Made By PARLIN & ORENDORFF CO., Canton, Ill., U.S.A.

International Harvester Company of Canada, Limited, SALES AGENTS FOR CANADA

WINNIPEG ESTEVAN BRANDON CALGARY REGINA SASKATOON EDMONTON YORKTON LETHBRIDGE NORTH BATTLEFORD

Low Fares and Tourist Cars to Pacific Coast

In connection with the low fare excursion tickets on sale to Vancouver and Victoria on January 11th, 12th, 13th and 14th, and February 8th, 9th, 10th and 11th, it is officially announced in passenger circles of the Canadian Northern Railway that they will operate through Tourist Cars from Winnipeg to Vancouver on January 12th and 14th, and again on February 9th and 11th. Connecting trains for these cars will leave Regina and Saskatoon January 13th and 15th, February 10th and 17th; and cars will leave Edmonton January 14th and 16th, February 11th and 13th.

This announcement should occasion no small amount of interest among those many who show a preference for this economically comfortable mode of traveling.

That the ever popular Tourist Car has lost none of its favor with the traveling public, was afforded ample proof by the great rush for reservations during the past week or so on the cars of this type now operating between Winnipeg and Toronto.

It is a source of great satisfaction to the passenger officials that the Tourist Cars—which, to have properly equipped and added to the new famous Eastern Canada

Express—they have gone to considerable pains—are finding such great favor with a judge so critical—the Western Canadian public.

These tourist Cars provide all the luxury of the Standard Sleeping Car at almost half the cost.

Knocking Caused by Loose Nuts

Engine knocking and bearing wear are so closely connected in the minds of many motorists, that it is worth while indicating other possible sources of trouble towards which attention might be directed, in cases where other tests have proved fruitless. Incidentally, it provides me with an opportunity to emphasize the importance of periodically going over the nuts of an engine and chassis with a spanner, to test their tightness. This precaution is eminently desirable with a new car, when the various parts have not had sufficient time to bed themselves in, and it is equally necessary with a car which through long running has probably suffered somewhat from vibration.

Two instances (both personal) of this class of trouble come to my mind. In the first case, the knock was always felt when the engine was picking up after slowing down, say, in traffic, or when gathering speed again after the

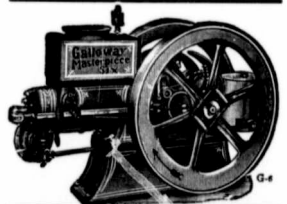
throttle had been momentarily closed on the open road. It was never felt when the engine was running fast, or even when driven fast uphill. It was several weeks before the cause was found to be due to a somewhat unmechanical method of attacking the flywheel to the crankshaft by means of a key and locknut. The nut had apparently worked loose, and thus permitted a slight amount of movement of the flywheel, which had gradually worn both the key and the keyway.

My other experience was with a small four-cylinder engine, the cylinders of which were cast in pairs. The knocking, which was in the nature of a thump, was only felt when the engine was laboring on a hill. The works tester traced it to a slight rocking of one of the cylinder blocks, due to the holding-down nuts having worked loose, and confessed that the fault was common to all the engines of that design, though they had not been able to ascertain the reason for the nuts working loose.

Two Temporary Repair Wrinkles

Good repairmen do not like to do temporary or "cobbled" work, but there are times when such work becomes necessary. Jobs come into the shop in which bolts do not fit their nuts through wear of the threads, rust, etc., and

it may be impossible to rethread by reason of the shop not carrying dies for the special threads used to a great extent. A fit can be obtained by slitting the end of the bolt, setting up the nut and, if necessary, inserting a bit of metal in the slit. A nut can be made to hold by slitting it about half way through on one face and then striking it directly above the slit.



GET MY PRICE

WAIT DON'T BUY a Gasoline Engine of any make, kind or price until you first get my new low price and I will pay you to investigate. We give you more power for less money because quality is our maximum and you get our best. We are the best. Our main business is the work in fine gasoline engines ranging from 10 to 20 horse power. All are made for an actual life of 10,000 hours. All of our engines are made from the best material and are built to last. The Galloway Masterpiece line are all our own design and are made in our own factory in Galloway, Ontario. All parts standardized and alike, made by the thousands in our machine shop.

Send to me direct for list of our Low Price list no better and to make your own list. An order for \$10.00 of the New Masterpiece 5k in a payment of \$5.00.

More Power For Less Money our engines are not overrated, they are built to last, but are made by time-tried experts, not by amateurs. Our professional, long experience, large horse power, and 100% efficiency, are our own. Best, satisfactory service. Write to me for a list of our engines and prices. I will be glad to send you a copy of my new low price and I will pay you to investigate.

Don't Get Fooled by the kind of talk intended to sell you a light weight, small horse and short stroke, high speed engine that will not stand up under the power strains demanded.

WILLIAM GALLOWAY CO., of Canada, Ltd. Winnipeg, Manitoba

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A MAN'S TALK TO MEN

By
REV. DR. J. L. GORDON



Persistence

COURAGE to persist. That's the cream of courage. Simply to go on in spite of ill-health, failure, opposition, mistakes and blunders. To rise before the bell rings. To come back every time you have been knocked out. To advance after every retreat. To reorganize after every failure. That is courage, nerve, grit, spunk—yes—genius. Persistence! An eminently characteristic anecdote has been told of William Carey's perseverance as a boy. When climbing a tree one day, his foot slipped, and he fell to the ground, breaking his leg by the fall. He was confined to his bed for weeks, but when he recovered and was able to walk without support, the very first thing he did was to go and climb that tree. Carey had need of this sort of dauntless courage for the great missionary work of his life, and nobly and resolutely he did it.

Reverence

GREAT men have a reverence for great things. Little souls snicker, jeer, laugh and joke about the things which most people regard as sacred. Don't joke about the Bible; you may read it some day. Don't slander the church, you may be buried from its altars. Don't laugh at religion, you may need its consolations in your dying hour. Don't blaspheme the name of Jesus, He is your best friend. Have regard. Be respectful. Theodore L. Cuyler remarks in his autobiography concerning Thomas Carlyle: "He then told me that when he was a lad he used to go into the Kirkyard at Dumfries and, hunting out the poet's tomb, he loved to stand and just read over the name—'Rabbert Burns'—'Rabbert Burns.' He pronounced the name with deep reverence."

In the Spot-light

WHEREVER you are—God is. You are in God and God is in you. To the right, to the left—above, beneath—before, behind—within you and above you is—GOD. You stand in the spot-light of God's love, light and truth. Think much of God. The thought of God is quick and powerful. When you think of God, you touch God. Keep in the spot-light. Standing on the top of the Cheviot Hills, a little son's hand closed in his, a father taught the message of the measureless love of God. Pointing northward over Scotland, then southward over England, then eastward over the German Ocean, then westward over hill and dale, and then, sweeping his hand and his eye round the whole circling horizon, he said, "Johnny, my boy, God's love is as big as all that!" "Why, father," the boy cheerily replied, with sparkling eyes, "then we must be in the middle of it!"

The Eyes of Genius

ATENTION! Look this way! Keep your eyes open! Everything depends on what you can see, as the procession of humanity passes by. The ordinary man is blind. He cannot see the roses by the way or the diamonds beneath his feet. But the man of genius was born with his eyes open. He can see—the gold in the boulder, the diamond in the dirt, the pearl in the gutter, the lily among the weeds and the rose in the desert. Listen! "Beethoven caught the movement for a sonata from the hoof strokes of a horse galloping down the road. Verdi got his rhythm oftentimes from the romping of children in the street. Gibbon

thus accounts for the origin of his great history: 'As I sat musing among the ruins of the Capitol, while barefooted friars were singing vespers in the temple of Jupiter, the idea of writing the 'Decline and Fall of the Roman Empire' first started in my mind.'"

Fascinations of Youth

OH youth! Remember that you owe something to age, infancy and society. You will not always be young. The roses may fade out of your cheek. Your eyes may some day lack lustre. The spring may slip from your ankle and the grip from your hand. While you are young share your health, strength, vitality and surplus energy with relatives, friends and neighbors. It is said that "Recently the Comtesse de Castiglione was one of the most renowned of the beauties of the Second Empire, passed away in Paris. When her beauty began to vanish, her anguish of mind was intense and displayed itself in her actions and mode of life. She possessed a portrait, or, rather, a full-length picture, of herself by Paul Baudry. One day her friends noticed that it had disappeared from the walls of her drawing-room. The comtesse had fretted over the fact that every day she was growing more and more unlike the exquisite creature portrayed on the canvas, which, in a final fit of anger and vexation, she had cut up into strips with a pair of scissors."

Self Reliance

THERE is a vast difference between conceit and a noble spirit of self reliance. A strong man is sure of himself. While he is conscious of his limitations he is also conscious of his strength. And in an emergency a man should assert himself—that is, he should quietly, modestly but persistently, when necessary, impress himself on others. A strong man, as a rule, is not unconscious of his strength. When Florence is deliberating about the choice of an ambassador to Rome, he playfully, yet still arrogantly, exclaims: "If I remain behind, who goes? and if I go, who remains behind?"

Facts and Truth

AFACT is only a part of the truth. The truth, the whole, and the fact always fits into the truth. When a man deals in facts, as facts ought to be dealt with, he has truth on his side; and no matter how absurd the statement of the facts may seem to be, Truth always comes to the bar of justice with her confirmation and vindication. Dr. Talmage says: "The clock of St. Paul's cathedral struck thirteen one midnight, and so saved the life of a sentinel. The soldier was arrested and tried for falling asleep at his post one midnight; but he declared that he was awake at midnight, and in proof that he was awake he said that he had heard

the unusual occurrence of the clock striking thirteen instead of twelve. He was laughed to scorn and sentenced to death; but three or four persons, hearing of the case, came up in time to swear that they, too, heard the clock strike thirteen that same midnight, and so the man's life was spared."

Wake UP!

WHEN you go to a meeting where an address is to be delivered occupy a front seat, if possible, and seek to inspire the speaker by the most respectful attention. Keep your eye on his face. Smile when he gives you a bit of humor. Nod when the orator makes a good point. Don't be ashamed to weep when you are touched. Remember that an audience shares responsibility with a speaker. A famous English actor stood on the stage impersonating, and thunders of applause came down from the galleries, and many thought it was the proudest moment of all his life; but there was a man asleep just in front of him, and the fact that that man was indifferent and somnolent spoiled all the occasion for him, and he cried: "Wake up, wake up!"

An Education

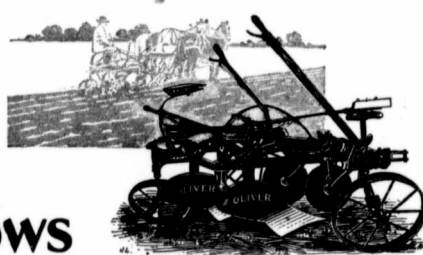
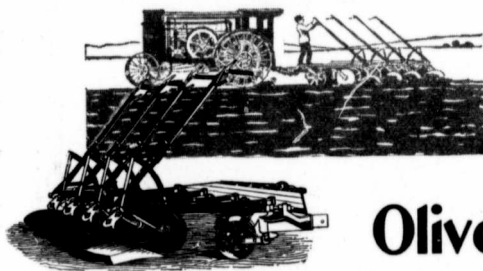
THERE are two kinds of education, one you buy and the other you "get." There is the university of letters and literature and there is the university of pushing and plodding—the University of Hard Knocks. Both are very good universities by the way. A friend writes: "It seems that there are two kinds of education: there is one I call life-education, which we acquire at home, in the streets, in the market-place, behind the counter, the loom, the plow—the education we acquire from life; and this I call life-education; there is also, what I call school-education—the education we acquire from books." Strive for a degree in both universities.

The Great Secret

THE great secret of life is expressed in one word—WORK. Work solves every problem. Work makes every discovery. Work removes every obstacle. Work tunnels every barrier. Work cures every disease. Goethe says, "I have been always regarded as exceptionally favored by fortune, and I do not wish to complain or find fault with the course of my life. But after all, it is nothing but labor and toil; and I may truly say that during my seventy-five years I have not had four weeks of real comfort. It is the never-ceasing rolling of a stone which must always be lifted anew."

Go For It

DID you ever notice that straight line of dotted light which frequently runs, like a flash of light, from the eye of Mutt to the face of Jeff. That straight line leads to success. If you want anything, go for it. Make a bee-line. Cut out the curves and remove all unnecessary flourishes. Genius never turns a corner when crossing a lot will bring speedier results. Lord Melbourne, Prime Minister: "Well, Mr. Disraeli, what is your idea in entering Parliament? What is your ambition?" Disraeli, a young Jew, without fortune or influence: "To be Prime Minister of England, my lord!" "What audacity!" said the world. And the world looked on and wondered, while the Jew, through obstacles almost unsurmountable, steadily worked on till the prize was won.



Oliver Plows Mogul and Titan Tractors

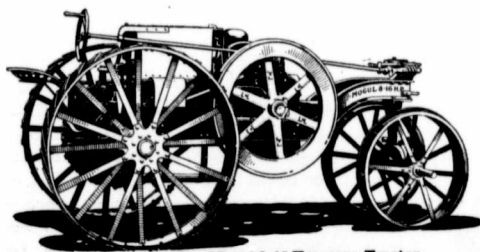
A Plow for Every Plowman and Real Power for Turning the Soil

WHEN you are thinking of buying a plow this spring, take time to look over the line of plows **Oliver** makes for Western Canada. There is an **Oliver** plow to meet every plowing condition peculiar to this part of the country.

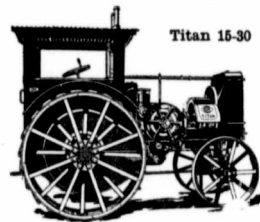
If you need a riding sulky, or gang, see the **Oliver** No. 1 sulky and gang, which have the deserved reputation of being the most satisfactory and popular riding plows used to-day in Western Canada. For other sets of conditions, the No. 39 and No. 11 sulkies have their good points, while in the walking gang, disk gang, and walking plow styles and patterns, the most particular plowman can be suited exactly, so don't fail to look over this complete line of **Oliver** horse-drawn plows before you buy.

One feature of the **Oliver** tractor gang puts it in a class all by itself, that is, the flexible joining of small sections—carrying 4, 5, and 6, bottoms—that enables the **Oliver** tractor gang, no matter how large, to follow the lay of the land and plow rolling ground to an even depth.

Best tried-out power for plowing you will find in the **International Harvester** tractor lines—**Mogul** and **Titan**. They are made in all the popular types and styles for all plowing conditions—simple in design, burning any of the low-grade fuels, made in sizes from 8-16 up to 30-60 H. P.



The Famous New Mogul 8-16 Kerosene Tractor



Titan 15-30

Write us now at the nearest branch. We will send you full information about **Oliver** plows and **Mogul** or **Titan** tractors, and tell you where you may see them.

International Harvester Company of Canada, Ltd.

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Farming with Horses is Expensive

This spring let a Case tractor do your early spring plowing. Deep plowing at the right time means bigger crops. Plowing with a Case tractor means not only deep plowing, but fast plowing as well. Farming with power is the profitable way.

Horses are expensive to buy and expensive to keep. With what it takes to keep our horses, the Government says we could feed 125,000,000 people. The farmer—not the consumer—pays from his profits for the feeding of our 25,000,000 horses and mules. In Kansas, farmers spend \$40,000,000 a year to feed draft horses, says the Kansas Live Stock Registry Board.

CASE

Can You Afford This Expense?

Each horse actually works about three hours a day, averaging the year. Each horse requires 27 minutes of care a day. Horses eat when idle or working. Expense goes on winter and summer—24 hours a day.

Too many men are "horse-poor"—over-horsed but under-powered. Too many farms are burdened by unnecessary expense.

Farm help is mighty hard to find and a continual source of expense. Case tractors is the answer to the problem. They are not the result of half baked ideas, but the result of 24 years of gas tractor experience.

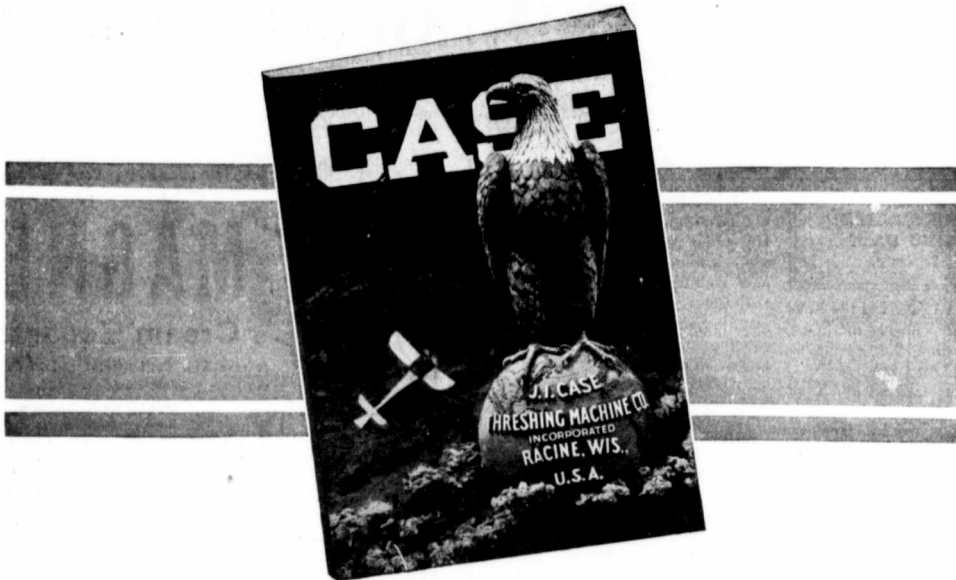
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Farmers Are Choosing Case

The Farmer's Mail and Breeze says: "When you buy a tractor of a standard company you are certain of getting an engine that has received thought and study by specialists who know the problems of farm tractors." Farmers are choosing Case because it is an old reliable concern, having been in business 74 years. Others know the sound, financial basis of this company. Still others have already used Case machinery, and they need no proof of Case workmanship.

There are many other reasons for Case leadership. Sign the attached coupon on the next page. It brings you our new 1916 Case Catalog which explains and illustrates the reasons why the demand for Case tractors has been greater than the supply. You will find it a book of real interest



Send for the Latest Case Catalog

Here is a reproduction of the big new Case Catalog for 1916. It contains 96 pages filled with interesting photographs, scenes and fine color reproductions of Case machinery. It will prove interesting from cover to cover.

Since 1842, when Jerome I. Case built his first threshing machine, until the present day, our aim has been to build only the best farm machinery. Our success is evidenced by the fact that each year, for 74 years, the demand for Case Products has increased. Every Case user has found his Case machine a profit producer. He knows our reputation and our guarantee are back of every Product bearing the Case name. Case customers are our ablest salesmen.

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Gentlemen:

I am interested in good farm machinery.
Please send me postpaid the 1916 Case Machinery
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R. F. D. ROUTE



DOES SPECIALIZED FARMING PAY?

By L. H. Cobb

SPECIALIZATION is the keyword of present-day methods. In every line the specialist seems to be the one that succeeds, unless it be the farmer, and that is an open question. I believe that the great successes in farming are the results of specializing, but it is a question if the same plan will be best with the average farmer. Conditions must be taken into consideration, and I am of the opinion that the small farmer of ordinary ability will succeed best by following a systematic method of diversified farming.

Diversified farming gives several sources of income, and if one or two fail others are pretty apt to balance up and save hardship. If the small farmer specializes and there comes a failure he is at once in close circumstances. He cannot afford to stand a complete failure, even if the chances of greater profit are exceptionally good. He must make certain of having a living, at least, and when he has accumulated enough to carry him over a bad season or two, then he can experiment with specializing.

Bad for the Farm

Most specializing is detrimental to the farm as a whole. I lived in a country where they specialized in wheat, and where very little else was grown. Many of the farmers were from the great wheat-growing states of the north, and I was talking with one who had owned a farm in North Dakota, on the James river, I believe, and he, said that his farm started out with a yield of thirty to forty bushels to the acre and he made money, but gradually the

yield became less, until it would not now pay the cost of seeding. He sold out at a loss and moved to Oklahoma to raise wheat in the new country, but he soon found that the yields were failing there also. Specializing in crops that rob the soil and making no effort to put anything back will make a man poorer the longer he specializes.

My sister took a trip to Florida to look at some land one March, and there she saw specializing on a large scale. She said that for miles and miles they rode through fields of celery; again, they rode through miles that were all planted to tomatoes. Probably another locality would be all lettuce, or beans, or some other of the crops prevailing in that land of perpetual summer, but it seemed that the idea was to grow mainly one crop in the locality. Doubtless this was for convenience and saving in shipping, for large quantities can be handled more economically than small, and carlots will save greatly in transportation.

The same principle holds good everywhere, and if specializing will enable us to market to a greater advantage it should be considered. In Iowa there are great fields devoted to popcorn, and whole neighborhoods are devoted to growing this one crop almost entirely. Popcorn as a small crop on the average farm would not be profitable, for the market would be difficult to find, but these farmers ship in large quantities and their demand comes to them. While the popcorn would not take the fertility from the soil as fast as the wheat, it would not be long until they would cease to get a profitable crop if they did not add fertility to the soil.



Courtesy of Canadian Kodak Co.

Green Pastures



will soon take the place of the snow mantle, and the MILK FLOW of 1916, like the crop of 1915, will be the greatest on record. Are you preparing to take care of it? The human element may be all right—inside its limitations. But it cannot get at the BUTTERFAT and few machines can reach it. You need a

"MAGNET" Cream Separator

to save ALL the butterfat and to do the job in the least possible time.

THE MAGNET

The Clean SKIMMER

is not the lowest priced machine made but it is the best value in any Cream Separator known. Quality, Character and the highest possible efficiency is first guaranteed by the severest 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 first of all gained their experience on Canadian dairy farms in all essentials to a separating machine that fits it perfectly and economically + every requirement. 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.

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Head Office and Factory: HAMILTON, ONT.

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Plow Shares at Factory Prices

NOW is the time to order your Plow Shares



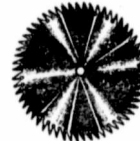
"Buy from a Reliable House"

F. O. B. Winnipeg

This is the right time to order your shares for spring work. Don't wait till you are ready to use your plow. Get ready now and you will be through your plowing early.

12-inch	13-in. and 14-in.	15-in. and 16-in.	18-inch
\$2.00	\$2.25	\$2.50	\$2.75

Cordwood Saw Blades



Made of best quality specially tempered steel. These saws are made by the largest saw manufacturer in the world and each one is guaranteed. All saws have 1 3/4 in. arbor hole.

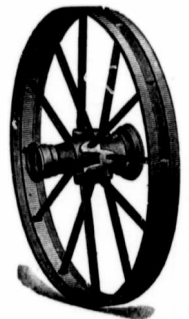
Shipped crated one to a box.

26-inch diameter	\$6.00
28-inch diameter	6.50
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Steel Truck and Wagon Wheels

Our wheels are supplied with grooved tire. There's a reason. Write to-day and get our prices.

Fit your old wagon with new steel wheels. Make a new truck of that old wagon. We furnish wheels from 20 inches to 48 inches high with 4x 3/4 inch grooved tire to fit any wagon. Strongest on the market. Low in price. Satisfaction guaranteed.



Imperial Bag Holders

This is the latest, best and most popular device on the market for holding bags and sacks. It is simple, light, strong, durable, portable and adjustable. Will not tear the bags. Will not upset. Weighs only nine pounds.

Price each, \$3.00 prepaid
SEND US YOUR ORDER TO-DAY

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Specializing Not Always Robbing

Soil robbing does not necessarily go with specializing in crops, but the thoughtless and care less grower is too apt to combine them. There are crops, though, that one can specialize in and increase rather than decrease the fertility. Alfalfa is the most popular of these. I have never heard of a field being overcropped to alfalfa or the yield being reduced. Poor soil can be made productive by the use of alfalfa, and fields that have been wheated out can be reinstated in fertility by its use. There are vast tracts in the west that are sown exclusively to alfalfa for years, and the profits are immense, and in Kansas and Oklahoma it is one crop that seldom fails of producing a profit, while enriching the soil.

While single crop specializing is not advisable for the average farmer, a sort of a double or triple specializing will often be greatly to his advantage. By concentrating his energies in certain lines a man can always make himself more efficient, and if the farmer will settle in his mind a special line of products, selected with a view to keeping up the fertility of the soil and at the same time reducing the cost of marketing, and will push this line with all the force he possesses, he will stand a better chance of success than if he divided his attention between a dozen different lines.

Corn, alfalfa and cattle make a winning combination, and hogs added does not weaken it. This is available for the corn belt. Where wheat is one of the crops dairying or cattle raising is necessary to keep up the fertility, and a rotation of crops to either alfalfa, or corn, and some cover crop for nitrogen, is advisable. Most farmers have a preference that it is well to consider, for we always do those things we like to do better than the things that do not appeal to us.

Don't Change Specialties

Specializing in anything requires a high degree of persist-

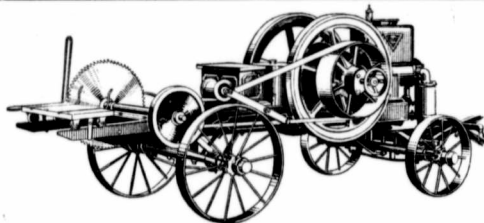
ence. The man who specializes in a new line every year or two will be doomed to most certain failure. Accumulated experience and facilities are what make for success, and if we lose this advantage by giving up too soon we must expect failure. Ask any farmer who has become a king in his line and he will tell you of years of bitter struggle when he held on with determination. He will tell you of the many times when he was sorely tempted to give up that line and try something else, but with bulldog tenacity he still held on, and success came. Specializing requires brains and persistence and faith.

Experiences of others should be of benefit to us, and should be given due credence, yet it is not safe to accept them as final. Many a man has seen an opportunity where others have failed, and has pushed forward to success in direct opposition to their experience and advice, showing them and leading them into the same channel.

The Cause and Cure of Heaves

Heaves is a very common and annoying disease of horse, interfering seriously with the usefulness of the animal, and consequently detracting from its value, says an American paper. Mainly a disease of old horses, it is essentially the result of faulty feeding and working, especially hard pulling or fast driving when the stomach is overloaded. Gross feeders are frequently subjects of heaves.

While in an old established case there may be alterations in structure of the heart and stomach, the principal changes are observed in the lungs. These consist, first, in an enlargement of the capacity of the air cells through dilation of their walls, followed by a passage of the air into the lung tissue between the air cells. Owing to such structural changes, it is impossible to prevent progressive de-



Look Well to the Power End of Your Sawing Rig

No part of a wood sawing rig should be more carefully scrutinized than the engine. It is the engine you must rely on to keep the outfit working.

Cold weather does not affect the steady, smooth running qualities of the Alpha. This is a great advantage as most of your wood sawing will be done during cold weather.

The carburetor and ignition system are entirely free from complicated parts. When you start your Alpha in the morning you can rely on it plugging away steadily all day. There is nothing to fuss or tinker with—not even batteries. The perfect control of the sensitive Alpha governor instantly regulates the engine to the varying loads that are always encountered in sawing wood. This feature and the great reserve power of the engine will keep the saw going steadily through big or little wood.

The above illustration shows one of our special steel frame mounted sawing outfits. Let us know what your requirements are and we will be glad to quote you prices and send description of a rig such as you wish.

DE LAVAL DAIRY SUPPLY CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA.
Sole distributors in Canada of the famous De Laval Cream Separators and Alpha Gas Engines. Manufacturers of Ideal Green Feed Silos.

Catalogues of any of our lines mailed upon request.

WINNIPEG VANCOUVER MONTREAL PETERBORO
50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

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



First Tommy: "Hello, Mate, any luck?"
Second Ditto: "No, 'tain't no bloomin' good with them blighters whipping the water like this."

EASY to LIGHT SOFT and BRIGHT

Rayo Lamps



ROYALITE OIL GIVES BEST RESULTS

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

velopment of the disease, which, however, under proper care, may go on slowly the animal remaining serviceable for certain kinds of work for years.

The Early Symptoms

Except in the very early stages the disease is readily detected. The symptoms are those which would naturally be manifested in a condition where the lungs are involved. A peculiar short, gruntlike cough is usually present, and when the animal is exerted a wheezing noise accompanies the breathing. The principal and characteristic symptom, however, is the jerky or double movement of the abdomen in an effort to force air from the lungs. The air passes into them freely, but the power to expel it is lost to a great extent therefore the abdominal muscles are brought into play.

Indigestion is, frequently observed in these cases and the horse may have a depraved appetite, as shown by a desire to eat dirt and soiled bedding; and there is a tendency to the condition commonly termed "potbellied." The animal, though a heavy feeder, becomes unthrifty and emaciated.

A poorly ventilated stable, humid weather, severe work and overfeeding with coarse, dry feed tend to aggravate the trouble.

The Treatment

As in this condition, structural changes have taken place in the lungs, treatment as a rule can only be directed to the relief of the symptoms, and it is not possible to effect a complete cure after the disease is established.

In the case of an affected horse it will be an advantage to dampen the food with a mixture of one part of molasses to three parts of water, so that no dust may arise while the animal is eating. It is also desirable to restrict the amount of hay or forage, as large quantities of bulky feed which distend the abdomen increase the difficulty, and an animal with heaves should never be driven or worked when full of such material.

In these cases Fowler's solution of arsenic may be given in doses of one ounce in the drinking water three times daily. Ordinary lime dissolved in drinking water (lime-water) will be found beneficial. Lime may be added to a barrel or cask of water, and after the resulting mixture has become clear

through precipitation of undissolved portions of the lime the lime-water may be used freely in watering the animal.

Shaping the Colt's Feet

An Important Consideration that Should Never be Neglected

It is a bright and true saying that "as the twig is bent the tree's inclined," and this is as applicable to the foot of the colt as it is to the historic twig. The time to start shaping the foot of the colt is as soon as the first irregularity of shape or growth is apparent. To illustrate this point I will say that if the colt shows a disposition to carry most of its weight on the heels, thereby permitting too long a growth of the toe, the toe should be cut back if possible to correspond with the heel bearing. If this is neglected, as the colt attains age and weight, the tendency is toward the undue straining of the tendons of the leg and a lowering of the pastern to a point where later in life it is quite impossible to ever overcome the defect.

Then, too, the foal may show a tendency to wear away the feet on the inner side, causing toeing-out. In this case it is self-evident that the foot should be at once trued or leveled by carefully trimming the outer wall of the hoof to a level with the inner. Should the colt show a disposition to wear away the outer wall of the hoof, the above work would simply be reversed, that is, cut away the inner and true to the outer wall.

Relative to the great importance of this work I will say that one of the most successful breeders and exhibitors of horses to-day in the United States has his colts in the blacksmith shop with their dams once every two months, when both the feet of the colts and the dams are carefully trimmed and frequently light shoes or plates are fitted to the colts when they are four or five months old, when the foot shows a persistent tendency toward irregular growth.

How Trimming Should be Done

For the first four or five months of the life of the colt the hoof can readily be trimmed with an ordinary jackknife, and thereafter an ordinary pair of blacksmith's cutting pinchers is the only tool needed. These should be found

This Book

Shows How to Make Better Farm Improvements.

A copy will be sent to you free of charge.

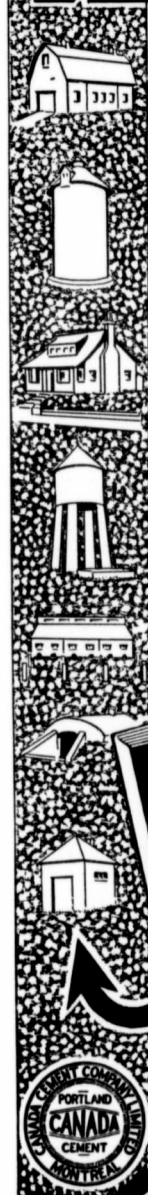
If you intend making any kind of farm improvements—the building of a house, barn, hen house, root cellar, tank, silo, walk, fence or the many other things needed on every farm—then you need this book.

It contains instructions for building every kind of structure better and more economical than is possible in any other way.

This book is the standard authority on farm building construction. It has proved of untold value to more than 75,000 progressive Canadian farmers.

Concrete is practically indestructible—it cannot burn or rot out and never needs paint or repairs. If you haven't a copy of this valuable book, send the coupon now.

Canada Cement Company Limited,
Herald Building, MONTREAL.



WHAT THE FARMER CAN DO WITH CONCRETE

SENT FREE

CUT OUT AND MAIL

8 CANADA CEMENT COMPANY LIMITED, Herald Bldg., Montreal.

Gentlemen:—Please send me a free copy of "What the Farmer Can Do With Concrete".

Name _____

Street and No. _____

City _____ Province _____

773

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



Courtesy of Canadian Kodak Co.

Dr. Thomas' Electric Oil

Relieves all Pain in Man or Beast

25 Cent Bottles at all Dealers

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

on every farm in this country where colts are raised and be used regularly in keeping the feet of all the horses on the farm in proper shape, which adds not only to their comfort, but to their personal appearance and value as well for there is no horse that is not as poor as his foot.

The wall of the hoof is that portion which surrounds the foot, and is alone seen when this is placed on the ground. It is fibrous in structure, the fibres passing from above to below, as they grow from where the skin terminates. Externally, the fibres are dense and resisting, but those nearer the interior gradually become soft and spongy. The growth of the wall is indefinite, it being the part which has to sustain wear through contact with the ground.

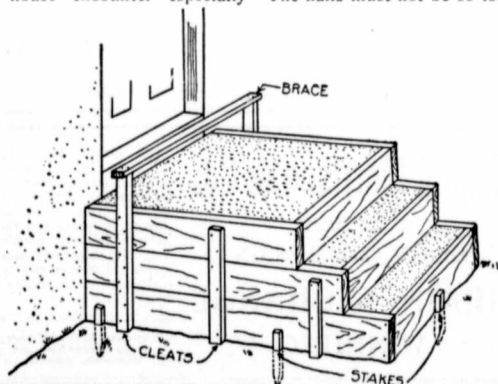
When the foot is lifted, the sole and frog are seen on its lower or growing surface. The sole is usually more or less concave in a healthy foot. It is fibrous like the wall, its fibres passing in the same direction, but they are much softer and their growth is definite, breaking off in the form of flakes when they have reached a certain length. The frog is a triangular mass of somewhat soft and elastic fibrous horn, situated at the posterior part of the sole. Like that part, its fibres are also of definite growth and flake off in large patches from time to time. The wall sustains weight and wear on all kinds of ground; the sole is adapted for sustaining weight on soft ground more particularly, while the frog has a most important use in acting as a cushion to support the powerful tendon which flexes the limb, in diminishing jar and in preventing slipping.

Simple Concrete Step Construction

Steps are not only subject to hard usage, but when constructed of wood with the lower part in contact with the ground and subject to alternate wetting and drying, decay is very rapid, making them unsafe and dangerous. Steps at the rear or kitchen entrance of the house encounter especially

hard usage, but it is a very easy matter to have them durable and safe by constructing them of concrete. A simple method of doing this is shown in the accompanying drawing. The three forms consist merely of that many boxes open at top and bottom and also at the end adjoining the door-sill.

A rise of 8 inches and a tread of 10 inches will be found convenient. For this reason the height of each box should be 8 inches, since every box will form a step. All of the boxes should be of the same width, but each one is 10 inches shorter than the one beneath it, thus forming the tread of the step. If the steps are few in number and not too wide, 1-inch boards will be stiff enough to hold the concrete without bulging, but if there is any doubt about this it is better to use 2-inch plank. The concrete for the steps should be mixed in the proportion of 1 bag of Portland cement to 2½ cubic feet of clean coarse sand to 4 cubic feet of crushed rock or pebbles. The earth beneath the steps should be excavated to a depth of 6 inches below the surface, the excavation being the exact size of the bottom of the steps. Make sure that the earth is level and compact at the bottom of the excavation. Place the largest box in position around the edge of the excavation, staking it in place at two or three points to prevent shifting. Level the first box very carefully by means of a carpenter's spirit level. The concrete, mixed rather dry, should be deposited in the box and thoroughly tamped and compacted until moisture rises to the surface. Work or spade the concrete thoroughly along the sides of the forms so as to produce a smooth surface. At the front end of the box, where the concrete becomes the tread, the surface of the concrete is carefully leveled off and smoothed with a trowel for a distance of about twelve inches from the outer edge. Immediately after this is done the second and smaller box is placed on top of the first one, being fastened thereto by a few nails through the upright cleats shown in the drawing. The nails must not be so long as



Every milk can will be sweet and sanitary if you always use

Old Dutch



The milk in the pail the cow kicks over is lost forever

AND the butter-fat that goes into the can through the skim-milk spout of a cheap, inferior or worn-out cream separator is just as surely lost as the milk in the pail the cow kicked over. If you are trying to get along without a cream separator, or with an inferior or worn-out machine, you are losing butter-fat right along and butter-fat is money.

Get Your DE LAVAL Now—Right Away

every day you use it it will be paying for itself out of its own saving.

If you haven't the spare cash right now that need not hinder your immediate purchase.

We have an arrangement with De Laval agents which makes it possible for any reputable farmer to secure a De Laval on the partial payment plan—a small payment at time of purchase and the balance in several installments, so that a De Laval really pays for itself while you are using it and getting the benefit from it.

Let the De Laval start saving cream for you right now while butter and cream prices are highest. See the nearest De Laval agent at once, or if you do not know him, write us direct for any desired information.

DE LAVAL DAIRY SUPPLY CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA. Sole distributors in Canada of the famous De Laval Cream Separators, and Alpha C & Engines. Manufacturers of Ideal Green Feed Silos. Catalogues of any of our lines mailed upon request.

MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

Family Group Photos a Specialty

AT **STEELE & CO., LTD.**

Main St. and Bannerman Ave.

WINNIPEG

to project through the forms and into the concrete. Fill the second box with concrete immediately, being careful that no dirt or other foreign matter falls or collects on the surface of the first batch of concrete, as this would prevent a good bond between the two layers. Finish this step or slab in exactly the same manner as described for the first step. The last or third step is constructed in exactly the same manner as those previously described.

The brace between the two back cleats is for the purpose of preventing the boards from spreading at the side next to the wall. The outer surface of the top step is carefully leveled off with a straight-edge and finished by troweling to a smooth surface. Excessive troweling, however, must be avoided. Not more than a half hour should elapse between placing the concrete for each step so that the concrete first deposited will not harden and set up before the next form is filled. After the steps are about one week old, the forms may be removed and the steps used. After the forms are removed any roughness or irregularities may be smoothed down and the surface of the entire steps finally finished by rubbing with an old piece of emery wheel and water or carborundum and water. Where the work includes many steps, a hollow space is generally left under the main body of the steps to effect a saving in materials. Where this is done the platform and steps are reinforced with steel rods or heavy wire mesh to prevent cracking.

Care and Feeding of Breeding Cockerels

Breeding cockerels should be well bred birds and they should be typical representatives of one of recognized standard breeds. They need not be exhibition birds, for, utility birds, with plenty of stamina, vitality and constitution, will prove more profitable to the average person, declares S. A. Bergey, of Macdonald College in the Witness.

These cockerels should be kept

separate from the females, except during the breeding season. The house for breeding cockerels need not be expensive, but it should be fairly roomy to allow sufficient floor space. Plenty of sunlight, dryness, freedom from drafts, and an abundance of fresh air in the house are the main requisites for housing the cockerels. Sunlight is nature's germ destroyer and it also adds to the comfort for the birds.

Unless the house is dry and free from drafts the birds are liable to take colds, which are very detrimental to the flock. Be sure to have an abundance of fresh air in the house. Cold dry air is preferable to warm damp air. Birds will stand quite a lot of cold providing there are no drafts and the house is dry.

Points to Notice

Sufficient perch room should be provided in order that they roost comfortably. Leghorns, Anconas, and other light breeds require from seven to eight inches perch room; Plymouth Rocks, and other general purpose breeds require from eight to ten inches; heavy breeds, such as Brahmas and Langshans, require from 10 to 12 inches.

A dust box should also be placed in the pen so that the birds may dust themselves whenever they so desire. Regular dusting will keep them fairly free from lice and mites. The dusting box should be about two feet square and about two feet deep. A deep box is necessary to keep the litter out. Fill the box about half full with good sandy soil.

The feed for breeding cockerels should be of good quality. The ordinary farm grains answer the purpose very well. In feeding the grain scatter it in the litter morning and night. The litter should be about ten inches deep. Be sure that the grain is well scattered in the litter so that the birds will have to scratch for nearly every kernel. This encourages exercise, which adds greatly to the health of the birds.

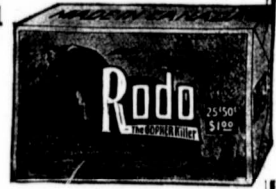
Other Feeding Points

Keep before them a liberal supply of fresh water. Sour skim



What Is His Name?

A Prize for You If You Know.



Who invented **Rodo** The Gopher Killer? Every farmer knows **Rodo** the perfect gopher poison; that pink colored, sweet smelling powder which the gophers can't resist eating, and which kills them the moment they swallow it. But, can you guess the name of the man who makes **Rodo**? Try! Write his name and send it to us. If you guess right we will send you Free a 25c. package of **Rodo**. There are no strings to this offer, and nothing for you to do to get a prize but just guess the name of the inventor of **Rodo**. If you do not know it yourself, ask your druggist, or a neighbor; or better still, ask yourself who is The Greatest Gopher Poison Man.

Mail your replies to:—

Guessing Contest Department

Prairie Chemical Co.

304 Keewayden Bldg.

WINNIPEG



or in the barn, "eating their heads off". One means profit—the other means loss. When a horse goes lame —develops a Spavin Curb, Splint, Ringbone—don't risk losing him through neglect—don't run just as great a risk by experimenting with unknown "cures". Get the old reliable standby—

KENDALL'S SPAVIN CURE

Mr. F. Winters, Port William, Ont., writes—"I have cured one spavin with your Spavin Cure, and am now trying it on another with good results". Be ready for emergencies, keep a bottle of Kendall's in the barn. Then, if a horse goes lame, you have the remedy on hand to cure the trouble quickly. \$1. a bottle—6 for \$5. at druggists. Ask yours for free copy of book—"Treatise On The Horse" or write us direct.

Dr. B. J. KENDALL CO., ENOSBURG FALLS, VERMONT, U.S.A.

PROVINCIAL WINTER FAIR

REGINA, SASK. - MARCH 14-17, 1916

\$7,000.00 IN CASH PRIZES \$7,000.00

Large prizes and classifications for Heavy and Light Horses, Beef Cattle, Sheep and Swine. Special sections for amateur exhibitors of beef cattle. Free return for exhibits shipped by freight

PRIZE LISTS ARE NOW READY FOR DISTRIBUTION

Single Fare Passenger Rates on all Railways

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ESTABLISHED 1904

GRAIN COMMISSION

GRAIN EXCHANGE

WINNIPEG

WE handle Wheat, Oats, Flax and Barley on Commission, obtaining best possible grades and prices. Our work is prompt, accurate and reliable. Let us handle YOUR shipments this season. Daily or weekly market letter on application.

References: Bank of Toronto
Northern Crown Bank and
Commercial Agencies

FREE

We will give absolutely free to any farmer, stock or poultry raiser one of our new 80-page booklets, which tells how to balance rations for feeding stock, milch cows, horses, etc. This also deals with the common diseases in poultry, the symptoms, treatments, etc. Tells how to build poultry houses; how to avoid all kinds of diseases in both stock and poultry; tells how to raise calves without milk, and describes fully the high-class stock and poultry remedies and foods we manufacture.

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

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

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

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

Royal Purple Cough Cure

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

Put up in 50c. tins; 60c. by mail.

Barrie, April 28th.

"The W. A. Jenkins Mfg. Co., London, Ont.: Dear Sirs,—In response to your request as to our opinion of 'Royal Purple' brand, let me say that in two years, or rather two seasons (winter), we have sold it, we have found it the best and most satisfactory stock and poultry specific we have ever handled. We have had many testimonials from customers as to its good qualities. One lady customer told us that she used 'Royal Purple' in feeding her turkeys, and the result was that she got the highest price paid on our market for them." The buyer stated they were the best turkeys he had seen.

Respectfully yours, H. H. OTTON & SON.

Royal Purple Roup Specific

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

"Gentlemen,—Enclosed you will find a photograph of one of our 'Dus-Mage' White Rocks. I ain't be a hen nearly dead with the roup, and after trying a number of remedies, sought the advice of Mr. Wm. McNeill, the well-known poultry judge, and he advised us to kill her at once, as it was impossible to save her life. She was not a valuable hen, and we thought it better to reliver her at once. At the end of a week's time she was completely cured. We have now put a little of your Roup Cure in the water from time to time, and have only had one case of roup in our immense flock in the last three years."

(The bird shown in this advertisement is reproduced from McConnell & Ferguson's photo.)

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



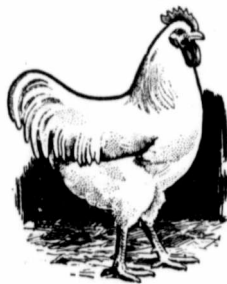
Royal Purple Stock Specific

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

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

Royal Purple Poultry Specific

Works entirely on the digestive organs of the poultry. When a bird's gizzard is working properly, it will be healthy, and when healthy will lay just as many eggs in winter as in summer. You can fatten turkeys and other fowl in just one-half the time on the same food when they digest their food properly. Royal Purple Poultry Specific should be used in the food once a day through the fall, winter and spring seasons. The cost to use it is so small that it will pay for itself 10 times over in actual results. No poultryman can afford to be without this excellent tonic. It is a hen's business to lay. It is our business to make her lay. Put up in 25c. and 50c. packages, \$1.50 and \$5.00 tins. A 50c. package will last 25 hens 70 days. A \$5.00 tin will last 200 hens for over four months.



milk or buttermilk is excellent as a drink.

Oyster shells and grit should be kept before them in hoppers so that they can help themselves at any time.

A daily supply of green food such as cabbages, mangolds or alfalfa hay is essential.

A wet mash given two or three times a week will help to keep them in good condition. A good mash mixture consists of two parts by weight of wheat bran, one part cornmeal, one part of midlings, one part oatmeal feed, and one part of beef scraps. If skim milk or buttermilk is available moisten the mash with this instead of with water. Sour skim milk is one of the best poultry foods we have. The V-shaped

trough, in which the mash is fed, should be kept clean.

The Mating Season

From about the middle of February to the first of March is a good time to put the males with the females. The cockerels should be with the hens at least ten days before hatching eggs are required.

It is a good practice to keep several extra cockerels on hand. These should be used to replace any that may get out of condition. Throughout the breeding season they should be used in exchange with the regular breeders, making the change every ten days or two weeks. In this way the cockerels are kept in better condition, resulting in more fer-

tile eggs, larger hatches and stronger chicks.

Among the lighter breeds, mate one cockerel with every 12 or 15 females; among the general purpose breeds, mate one cockerel with 8 or 10 females; and among the heavy breeds, mate one cockerel with 6 or 8 females.

As soon as no more hatching eggs are required remove the male birds from the breeding pens and place them in a run by themselves. A few of them may be good enough to keep over as breeders for the second year. All others should be fattened and sold.

Those which are being held over should be given good care during the summer. As far as possible keep all male birds

separated from the females except during the breeding season.



In Celebration

A man may be rough-looking and yet have a touch of sentiment about him.

A ragged, ill-kept-looking man appeared at the door of a Providence woman's home and in a pleading tone asked:

"Have you a piece of cake, lady, to give a poor man who hasn't had a bite for two days?" "Cake!" echoed the woman, in surprise. "Isn't bread good enough for you?"

"Ordinarily, yes, ma'am. But this is my birthday," explained the tramp.

Royal Purple Calf Meal

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

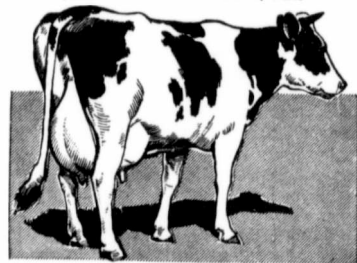
Stratfordville, Ont., Sept. 28, 1915.

"The W. A. Jenkins Mfg. Co., London, Ont.: Dear Sirs,—Replying to your letter of Sept. 18th, my bull's name is Fineline King May Fayne. I am having printed now an extended pedigree of him, which I will be pleased to forward you, along with his photograph, as soon as completed."

"The calves I won your two special prizes on were Forest Ridge Fayne Elite and Forest Ridge Fayne-Calamity 2nd. They were both fed regularly on your calf meal, as well as the calf that won first at the Canadian National Exhibition, Toronto, this year in a class of 33. I also won first and your special prize at the Stratfordville Fair here on another calf."

"The above I believe to be recommend enough for one breeder, as I have used several different calf meals, and have not found any quite so satisfactory. Yours truly, L. H. LIPSIT."

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



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

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

Yours very truly, J. W. MARR."

We also manufacture:

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

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

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

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

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

Royal Purple Linseed Meal.

Royal Purple Chick Feed—25c. packages, 100-lb. bags.

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

Made in Canada by Canadian capital and labor.

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

The Farmer's Library

The modern minister, doctor or lawyer would not think of trying to practise his profession without the text books and professional bulletins that his library affords, nor could the engineer, the manufacturer or merchant do as good work without the help of previous experience of others, largely found in books. Just as valuable as law books to the lawyer are the works on agriculture to the modern farmer.

It is easy with a little work and a very little expense to start a library, especially on the professional side. The federal government, the state and numerous other sources and private correspondents issue publications of great value to those who will gather and use them. Then there is the great agricultural press, whose publications are very moderate in price. Good books can be purchased in plain but substantial bindings, at a fractional part of their cost some years ago, and a few more expensive volumes purchased from time to time and added to the collection soon surprises one as to the extent and value of his library.

A few hints as to how one farmer started his library may be of interest to some of our readers. He wrote to his local congressman asking for the year book of the United States Department of Agriculture and all the back numbers that could be supplied him, and for a list of all the bulletins and circulars of the Department of Agriculture. When he received this list he checked off those which he wished and sent in the list. Reports of the other departments at Washington which were of value to him were also requested and he asked to be put on the permanent mailing list for announcements of new publications. Then he wrote to the state experi-

ment stations for reports and for lists of circulars and bulletins. In the same way he wrote to the secretary of his farmer's institute for its report and other publications; asked his state superintendent of public instruction for such documents as would be of value to him. The extension department of his state university was also asked about the extension work that they were carrying on. Similar departments of other states published other material and usually sent it to him on application. He subscribed for a list of the best papers and magazines. Many of these have been bound in simple, inexpensive manner. He joined the county horticultural society, his local grange, the stock breeders' association and similar organizations which existed in his community, and received their communications as well as the other benefits which they offer. These four sets of suggestions enabled him to get his library started on the professional side.

The matter should not be allowed to rest here, however, but some of the more thorough and connected discussions on the various phases of agriculture should be purchased to help out. The farmer's library is not complete if it contains nothing but the professional material. There should be some good general children's and household magazines. There should be story books and culture books, in short there should be a well rounded collection of books that will grow more valuable every day.

In the Boudoir

Helen—"Why, I never could marry that man!"

Hazel—"Mercy! Why not?"

Helen—"Why, he wears a wig!"

And then the dear creature took off a rat, some puffs, a coronet, a braid, a pompadour and a switch, and sat down to peruse a novel.



HORRORS OF WAR

Corporal (before entering the trenches): "Now, look 'ere. I'm responsible for this section and if any of you blighters gets it in the neck through foolishly 'exposin' of 'isself—I'll give him wot for."

LOOK INTO THE FEEDER QUESTION

The Feeder is the **Vital** part of your Threshing Rig, for no matter what Separator you have you cannot do good and fast work with **Irregular Feeding**.

"Ten to One"

your **Feeder** is the **Weakest** part of your rig. It **Must** be the **Strongest** or your rig is a "back number" and you are out of the business.

Take a Day Off And Do a Little Thinking

Does your Separator waste grain? Does it do a poor job of cleaning? Do the spikes and concaves break? Do the belts fly off? Do the pitchers overload the Feeder and **Slug** the cylinders? Do the sheaves get into the cylinder crossways? Does it take a lot of time cleaning up the litter around the Feeder? Do you have a man running after repairs? Do you have a crew standing idle while you are tinkering with the machine?

If So, There is Something Wrong with Your Feeder

A "GARDEN CITY" FEEDER ATTACHED TO YOUR SEPARATOR WILL OVERCOME ALL THESE TROUBLES

We Guarantee It or No Pay

Send to any of the following places for our **FREE** Catalogue

- The Garden City Feeder Co., Ltd, Regina, Sask.
- The Garden City Feeder Co., Ltd., Brandon, Man.
- H. P. Norton Co., Calgary
- Mart McMahon, Lethbridge, Alta.

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



LIVE POULTRY WANTED

If you want **full prices** and **honest weight** for your Live Poultry, send it to a reliable concern. We handle shipments to **your** advantage. Our fair and honest dealing with thousands of the Live Poultry Shippers of Western Canada has been increased and extended through our unflinching policy.

HIGHEST PRICES PROMPTLY PAID

A trial shipment is earnestly solicited, if we do not already handle your business. We know we can satisfy, and a trial makes a permanent customer. You run no risk. As: your neighbor

Our Quotations are Guaranteed Our Customers Insured of Full Price

Not only do we guarantee the prices we advertise from issue to issue, but if there is any sudden increase in quotations we invariably give our customers the benefit of this extra profit. Here are our guaranteed prices from this date until March 10th. We will not pay lower; if they increase you get the benefit.

	Per lb.		Per lb.
Live Hens	12c	Ducks	16c
Young Roosters	14c	Turkeys	16c
Old Roosters	11c	Geese	16c

Write to-day and let us know how many you have and we will forward crates for shipping. Send your shipments by Express collect.

References: UNION BANK OF CANADA, North End Branch

GOLDEN STAR FRUIT AND PRODUCE CO. 91 Lusted Street, Winnipeg

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

Twelve Months of this Magazine for One Dollar

New Auto Engineering School

We have much pleasure in directing the attention of readers to the announcement on another page of the Winnipeg School of Automobile Engineering. This is a real school, in which the whole detail of mechanism and driving is practically and thoroughly taught till the pupil is finally proficient. It is not an "agency," but a strong company under the management of A. M. McLeod, who has had a long experience in everything affecting the construction and operating of the automobile. Mr. McLeod and his staff will personally conduct the pupil through every phase of his training, and we have not the slightest doubt that any one taking advantage of this opportunity will be satisfied.

to pregnant mares sixty days before foaling, and from the testimonials we have seen and continue to hear as to its efficacy, we have no hesitation in strongly advising our friends who have risked their capital on the raising of horse-flesh to look into this matter. A brief announcement of "Foaline" will be found on page 39.

An Invincible Fence

The Farmers' Supply Company Limited of Winnipeg are placing on the market a stock fence of more than usual interest to which we desire to invite special attention. It is fairly described on this page under the title of the "Ajax" fencing. Its great strength is easily evident, and in view of what we have said on the same

WAR'S INFLUENCE ON FARM MACHINERY PRICES

A NOTE OF WARNING

As this magazine goes to press, an economic crisis has been reached, or is within sight in the farm machinery and implement sources of supply which is probably without precedent in the history of the trade. The direct cause is no doubt the enormous drain on raw material which is being used in the making of war equipment. How long this will last, and what it may lead to, no human vision can determine, but the immediate effect of it is a serious dislocation in all manufacturing centres. Prices for crude and refined steel have enormously advanced, but even at any price, manufacturers are finding it impossible to get a date of delivery on contracts upon which they can place the slightest reliance. We are far from being alarmists, but we do know and keenly appreciate the necessity for unusual foresight and preparation on the part of our farming friends at this point. If the urgency of the case has not already gone home to them, we earnestly offer the suggestion: "If you have to buy anything in 1916 in farm machinery, implement or tool—get it now or give your merchant a firm order for delivery at or near a specified date—if he is still in a position to take a post-dated order.

Course in Blacksmithing

We are happy to announce that beginning with our March issue, a series of articles will appear from month to month which are intended to cover a complete course in Farm Blacksmithing.

These articles will be contributed by one who is thoroughly qualified to write them, who is not only an expert in every detail of blacksmithing, but has brought all the enthusiasm of a hobby into what has really been his life's special work.—Ed.

To Save the Foals

May we again refer to the remarkable success which is attending the use of "Foaline" in securing an immunity from joint-ill or navel disease in foals. This, it may be explained, is not a "cure" but a preventive treatment, given

page as to the unprecedented condition of the market in all kinds of iron and steel, raw material, we should imagine that very many of our readers will seize the opportunity presented by this company to protect themselves.

Felts and Roofings

We are glad to refer very briefly to the publicity matter of the O-Rib-O Company, of Winnipeg, which appears in this issue. The immediate subject of their announcement is their special **Comfort Felt**, a substance which is giving very great satisfaction as a substitute for plaster and also as a "deadening" felt. It is a thick, heavy pure felt, and is said to be 75 per cent cheaper than plaster. In addition to this celebrated brand, this company also handles a big variety of other well

GET YOUR ORDER IN NOW FOR

OUR FAMOUS AJAX FENCING



But order early, we have only a limited supply, and after March, prices will advance at least 20 per cent and perhaps more. Can you afford to pay this big increase in price. Why not anticipate your wants in advance. We will ship whenever you wish and if you do not want shipment till March, a deposit of 10 per cent will guarantee you delivery. We do not ask you to advance the full purchase price, but we do advise ordering by return mail.

Remember we are not offering you cheap, low grade wire fencing. Every rod we ship is guaranteed newly galvanized, full gauge and sold with the understanding that if not satisfactory you are at liberty to return at our expense. We offer a limited quantity at very interesting prices. Order from this advertisement. All prices F.O.B. Winnipeg.

MEDIUM WEIGHT AJAX FENCE—No. 9 Top and Bottom, No. 12 Intermediate		Weight	Our Price		
Wires	Height	Per Rod	Per Rod		
Hog Fence	7 26 in.	13 in. apart 6 lbs.	\$.25		
Stock Fence	7 48 in.	13 in. apart 6 1/2 lbs.	.29		
Our Leader Stock Fence	9 42 in.	13 in. apart 7 1/2 lbs.	.34		
Stock Fence	10 50 in.	13 in. apart 8 1/2 lbs.	.38		
Extra Special Stock, Hog and Sheep Fence	15 50 in.	8 in. apart 13 lbs.	.59		
EXTRA HEAVY AJAX FENCE—All No. 9 Wires Throughout					
Wires	Height	Stays	Per Rod	Our Price	
Field Fence	4 33 in.	22 in. apart	5 1/2 lbs.	\$.23	
Field Fence	6 39 in.	22 in. apart	8 lbs.	.29 3/4	
Stock and Hog Fence	10 50 in.	22 in. apart	13 lbs.	.50	
Sheep and Hog Fence	7 26 in.	11 in. apart	11 lbs.	.42	
EXTRA HEAVY GATES, 4 FEET HIGH					
Width	3 1/2 ft.	8 ft.	10 ft.	14 ft.	16 ft.
Price	\$2.00	\$3.90	\$4.20	\$4.50	\$6.25

Get Your Copy of Our **BIG FREE CATALOG** Shows everything for the farm and home. It will save you many dollars on your purchases during the year. Send for it to-day.

The Farmers' Supply Co. Ltd.
179 Bannatyne Avenue East WINNIPEG

Automobile Engineering

TAUGHT DIRECT ON OUR OWN PREMISES

by a staff of well-known experts in every detail of automobile construction and driving.

Success assured in the briefest possible time. Our terms are extremely moderate and we **Guarantee Perfect Satisfaction.**

Write or call for full particulars.

THE WINNIPEG SCHOOL OF *Automobile Engineering*

503 Furby St. Winnipeg



600,000 Seedlings and Cuttings for Sale

this spring, and in order to encourage apple growing I will give away free this spring 1000 Hibernial Apple and 1000 Transcendent Crab Apples. These are gratis and should grow two feet this season. I will also give away free 500 Ives, one of our most beautiful and hardy perennials. My price for Willow cuttings is \$4.50 per 1,000; \$35.00 for 10,000, express prepaid on all orders of \$3 and over. I have a fine stock of trees, shrubs and fruits. Anything that is not satisfactory may be returned at once and I will refund the money. My prices are 35 per cent less than agents' prices. Send me your address and I will send you my price list with full printed instructions.

John Caldwell Est. 24 Years **Virden, Man**

known building materials of the kind, such as the "Triumph," "Navy," "Cyclone" and other building papers—the "Western King" (Blue Waterproof), "Monarch" Sheathing and the "Heracles" Sulphite Sheathing. Their "Winner," "Klingon" and

"Vidette" brands of roofing are also specialties which ought to be sampled and taken into account before any building plan is proceeded with. The company will gladly send samples direct to any inquirer whose dealer cannot supply the O-Rib-O specialties.

OUR YOUNG FOLK CONDUCTED BY Cousin Doris.

SOMETHING ABOUT THE BOY SCOUTS

By UNCLE JACK

Dear Cousin Doris: Instead of giving you a letter from the trenches this month, I want to say something to your campers about the "Boy Scout" movement to which I am persuaded a great many of your boys already belong.



Lieut.-Col. C. W. ROWLEY, Provincial Commissioner

I have never been actually identified with the Boy Scouts but that is simply because I have had to attend to so many other interests in my time. One distinguishing feature of a true blue boy scout is that he will not undertake any responsibility unless he is determined to "make good" in it; unless he knows he can do justice to it. The boy who does things by fits and starts and as the mood seizes him is hardly a fit candidate for a scoutmaster if he is acceptable as a "tenderfoot." Perhaps it might be argued that he is just the fellow whom the discipline and training of the scout idea will most of all benefit. Well, that may be, but anyhow, if I have never been in the ranks, I have never known a boy's movement that has fascinated me more or one which so completely commands my esteem and admiration.

When the thing "broke out," I looked upon it as I daresay many people look upon it to-day with a feeling of indifference or amusement, or when forced to express an opinion it was that it was largely a sort of kindergarten for militarism, in some senses to be commended, in other respects to be condemned.

The scout principles were good, but in the background there was always the idea that war and fighting are inevitable and often praiseworthy.

But one morning there came out in the London papers an account of a thirteen-year-old boy who had gone into a burning house and carried out a baby. The little chap took a risk before which men of mighty physique and reputed courage quailed and retreated. It was one of the bravest things in boy life I ever read, worthy of the highest praise if it had been done by a seasoned veteran. A lump rose in my throat as I read on to where the father of the child sought to reward the boy, who modestly declined any recognition of the kind. "No," said the little hero, "it is my job. I am a Boy Scout."

That settled me, and I have used my eyes since they were then first opened to a real knowledge of this essentially British institution for the training of its manhood. I have witnessed scores of instances, any one of which satisfied me that there was a deep seated reality and seriousness behind the merely picturesque or spectacular features of the movement, the purpose of which was character building—to make the boy into a man; that is, "a being who makes his flesh obey his spirit and his spirit obey God."



9th Winnipeg Troop Boy Scouts, Winners of Merritt Cup 1912-13-14-15, Butt Cup 1914-15 and Kilgour Cup 1915. Note the Badges individual boys have won

Now, I must not encroach too far on your space this month, although I feel quite sure you will agree with me that there is nothing I could write about that would be of greater interest and profit to your big family of boys.

This is merely a "preliminary center," so to speak and if you will permit me I will keep you posted from month to month as to the wonderful progress and the splendid records which our boy scouts are making.

I am sending you a few pictures which will give you a sample of the Manitoba boys and their chiefs.

His Honor Sir Douglas Cameron, Lieutenant-Governor, is Patron and Chief Scout of the Province; A. M. Nanton is President; Sir Daniel MacMillan, vice-president; F. L. Patton (manager of Dominion Bank), treasurer.

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EVERYTHING GUARANTEED—YOUR MONEY BACK IF DISSATISFIED
Order **The Popular Music Supply Co.** Donalds Block To-day WINNIPEG

The active officers are as follows:— Provincial Commissioner, Lieut. Col. C. W. Rowley; Provincial Secretary and Assistant Provincial Commissioner, Alex. T. MacIntosh.
The offices are in the Industrial Bureau where Mr. MacIntosh can be found almost at any time and will be glad to respond to any requests for information. These gentlemen are all heart and soul

and mould the mind must be based on principles morally sound and educationally effective.

"It seeks by methods that appeal strongly to the boy mind and temperament, and secures his enthusiastic co-operation to run on lines directed to this end.

"The first principle inculcated is the moral obligation of duty—(a) To God, as the Supreme Authority, in conscience and in life; (b) To the King, as the representative of national law and order. The next is the obligation of neighborliness (or brotherliness) regardless of caste, color or creed.

"Then of obedience, at all costs, to constituted authority, whether of the home, country or employment.

"The educational value of the movement is seen in the wide field of subjects in which practical instruction, presented in most attractive attire is afforded, e.g., self-discipline, health, hygiene, nature

pledged to the interests of the boys and it will interest and gratify the older folks to know that Mr. MacIntosh gave up his congregation (of the Presbyterian Church) to devote himself entirely to this great work with its far wider field of influence. I envy him his job.

I will conclude for the present by enclosing you a statement made by the Honorary Secretary setting forth the Aims of the Boy Scout Movement:

"If you are going to do anything permanent for the average man you have got to begin before he is a man. The chance of success lies with working with the boy, and not with the man.

"The boy scout scheme realizes this truth, and further recognises that, to be really successful, any movement that would permanently influence the character



Alex. T. MacINTOSH, Provincial Secretary

study, history, geography, observation of deduction, chivalry, patriotism, life saving, astronomy, etc., and these in such a manner as to make the boy, not an unwilling scholar, but a most enthusiastic student.

Our Motive

"Every one is familiar with the motive power of steam, gas, petrol and electricity exerted through machinery adapted and controlled by the skill of man for his use and convenience, which has become so indispensable to the civilized populations of the world.

"Thus the happiness of the social conditions of life and the success of any movement to that end depends upon character influenced by Divine Power controlling individual conduct.

"Let every man obey every good motive arising in his heart, knowing that every such motive proceeds from God.

"Sir R. S. Baden-Powell has expressed the general intention of the scout movement to be an "endeavour, without interfering with the spiritual training or form of religious observance already given to the boys by their parents or pastors, to make them good citizens and upright men, and to teach them to put their religion into practice in their everyday life."

"Controlled by Power Divine, 'Our Motive' of love to God and good will to men, strengthen the character of the scouts who willingly practice: Loyalty to God in all circumstances as His faithful soldiers and servants; and chivalry to man at all times, by grasping every opportunity to do a good turn to those in need of sympathy and help.

"Our motives then are the direct result of God's power working in us both to will and to do His good pleasure, and determine the choice of every scout with confidence and enthusiasm like 'hungry people attacking a meal they know to be good.'

"Then ready for His Service,
We can go forth with prayer,
To do the work He gives us
And serve Him anywhere."

I trust the foregoing will find many interested readers, and if you will permit me, I shall be happy to send you some stories worth telling, of incidents I have witnessed or can vouch for in which again and again these "common or garden" boys have demonstrated that there is an eternity of difference between the sanctimonious prig and the Christian gentleman. I am, yours sincerely,
Uncle Jack.

Girls' Cosy Corner

Note.—I feel sure the girls will not object to my giving precedence to the boys for once, especially as it is to try to do a little bit for that splendid institution, the "Boy Scouts," in which we are all so deeply interested.—C. D.

MY AMBITION IN LIFE

My ambition in future life is a quiet, though busy useful one, especially in time of war. This ambition is to be a prudent nurse, not one that is shiftless or careless. I should go to a large hospital where the wounded soldiers are taken care of. I would do my very best so as not to be a hindrance but a help to those who are sick and wretched. I wouldn't like to work too many hours a day, as it would then be rather tiresome. It would be preferred to get up in the morning at six, be ready for a day's work, (with the exception of one dinner hour) and at evening to be free at six for one's own pleasures, such as skating, sleigh-riding or theatre-going.

This may not be a rousing ambition, but I think it is a pleasing one, to know you are doing your best for the world, yet having trouble and bliss as all human beings have to compete with

Grace Barke, (Age 12 years),

Bavelaw, Sask.

Life as a nurse is more work than play, Grace.

THE BURGLAR

Daddy's watch was stolen from the top of the writing table in his room. He valued the watch because mother gave it to him one Christmas, besides times were too hard to buy a new one. On one

side was his monogram that had been made by a special designer.

He wondered where the Burglar got in. Sister Monona found the back door unlocked, so that solved the mystery. We looked all through the silver but not a piece had been touched. Not another thing was missing in the whole house.

Daddy said the watch would be easy to identify if the Burglar pawned it, so he would get a detective, because burglars should not be allowed to go unpunished. Whoever left the door unlocked did a stupid thing. Burglars should not be tempted by unlocked doors.

Daddy was very much worried. He did not know what to do. He remembered so distinctly of winding it just before he went to bed. Mother said the Burglar

must have come in very quietly because she was up a great deal with the baby in the night. The hours were between two and four.

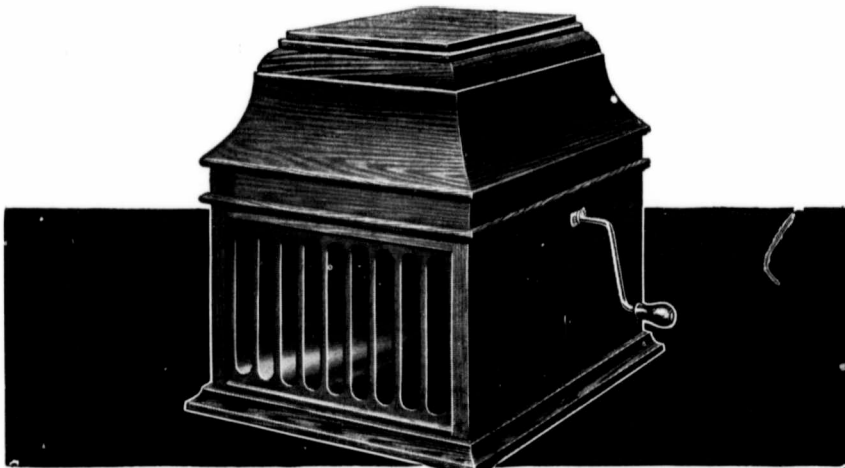
Daddy sat with his hand over his forehead in deep thought. For a Burglar to come into his room without disturbing him was beyond belief. He sleeps soundly, but always a step in his room rouses him to consciousness. For ten years—since Daddy and Mother began keeping house—nothing like this had occurred. Every one in the house was excited. No one ate any breakfast.

Just before Daddy started to the office, Mother went up stairs. Mother's face was a study—she had that queer expression that mothers have when they are about to discover something. She stood in the

doorway of Daddy's room and looked first at the ceiling, then on the floor; then at the window and up at the pictures. She walked into the room and looked under the table and reached for Daddy's boots that he had taken off the night before. She put her hand in till it reached the toe. Then with a twinkle in her eye, she pulled out Daddy's watch—chain and all—just as the long hand was at twelve and the short hand was at nine.

The little curly-haired two-year-old very wisely watched the affair from the window near by. When she saw the watch, she came over and put one little dimpled hand on the table and appeared very serious. Then what do you think Daddy did?

He kissed the Burglar



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Think of it—a \$1.00 payment, and a few dollars a month to get this brand new style outfit—the Diamond Stylus reproducer, the musical quality—the same Diamond Amberol Records—all the musical results of the highest price outfits—yes, the greatest value for \$1.00 down, balance on **easiest monthly terms.** Convince yourself—free trial first! No money down no C. O. D., not one cent to pay unless you choose to keep the instrument.

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Hear all the latest up-to-date song hits of the big cities. Laugh until the tears stream down your face from laughing at the funniest of minstrel shows.

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OUR WOMEN FOLK

CONDUCTED BY
PEARL RICHMOND HAMILTON

1950: A MAY MORNING REVERIE

I am sitting alone by my easement,
While the swallows come and go;
Watching the sun on the garden,
Where the old loved flowers grow,
And something strangely stirs me,
Revealing a youthful song,
'Tis the pure clear air of the morning,
The air of the sweet May morning
Whose fragrance lingers long.

It was just such a morn, I remember,
When with you I crossed the lea;
Sunbeams were waking the flowers
And gilding the sapphire sea,
And the joy of a love undying
Was filling my youthful heart,
As I breathed the air of the morning,
The air of that sweet May morning
When life was at the start.

But that Summer the great War claimed
you,
And so I grow old alone;
While the creeper we planted together
Has over the old house grown,
'Tis years since the guns were silenced;
Yet I see your face once more
When I breathe the air of the morning,
The air of a sweet May morning,
As I did in days of yore.

C.M.S.
The above original and extremely
beautiful verses are contributed by a
young lady friend and old school-mate
of one of the members of the "Canadian
Thresherman and Farmer" staff. Her
brother is with the forces in France.

COLLEGE TRAINING AND HOME- MAKING

Last week I spent a very interesting
and pleasant afternoon at the Mani-
toba Agricultural College, where more
than one hundred girls are taking
courses in Household Art and Domestic
Science.

I know of no institution in the city
where one may see such a splendid
group of girls—young women whose
faces reflect intellect clear and pure—
and whose personality indicates fine
womanly dignity and modesty. They
are girls who appreciate their opportu-
nity and are hungry for instruction.
If my own daughters were old enough
this institution is where I would send
them, not only for the splendid educa-
tional advantage but for the associa-
tion with such a superior type of girl-
hood and for the influence of teachers
who are women genuine and helpful. I
was pleased to meet Miss Kennedy there
for I know her training alone is worth
more to a girl than can be estimated.
When a girl leaves her classes, she
knows how to make her own clothes
from underclothing to dresses, suits and
hats and is able to design as well.
The training in economy in dress under
Miss Kennedy is saving the parents of
these girls many times the cost of the
course. Then, too, the course is most
interesting as the girls are taught the
scientific part of dress materials. The
art of furnishing a home, too, is an
important part of Miss Kennedy's in-
struction. Being very much interested
in girls I feel that the influence and
instruction of a woman like Miss Ken-
nedy is a great blessing to the young
women of the West, for girls from all
of the Western Provinces are enrolled
at the Manitoba Agricultural College.
Miss Kennedy is also very popular with
the women of the Province. Her dem-
onstrations have been highly appreciated
and at every town she visits she makes
loyal friends.

Miss Eadie has charge of the domes-
tic science department. She gives the
girls thorough instruction in food values
and cooking. There is splendid equip-
ment in this department. During the
term each girl is required to plan and
cook all of the meals for four people
for one week. There is a private din-
ing room and kitchen and the girl has
entire responsibility for the week. She
must keep an accurate account of
weights, measures and cost of the food.
When I passed through the kitchen the
girl in charge of the week's cooking had
just taken out of the oven two nice
loaves of bread. The work in this de-
partment shows excellent system. Miss
Patrick is Miss Eadie's assistant.

Miss Gossnell has charge of the exten-
sion work and spends most of her
time among the Home Economics So-
cieties of the Province.

Miss Evelyn Moore, who very kindly
invited me, took me with her for tea.
The large dining room was indeed a
splendid sight. Each table accommodates
four young ladies and four young men.
This arrangement provides an opportu-
nity for the students to become ac-
quainted with one another. Rearrange-
ment is made every week. One young
man at each table acts as host and a
young lady as hostess. The visitor
notices a splendid social atmosphere
among the students. Skating clubs,
snowshoeing and other winter sports
all add to the social pleasure of student
life. Parents may feel perfectly con-
tented as a careful system keeps the
body of students at the college as they
are not allowed to go to the city
unless a member in charge gives per-
mission and then she must have a
written invitation from the home where
the girl visits. This is very commenda-
ble as it protects carefully the college
girl away from home.

The visitor leaves the college with a
fine feeling of admiration for the young
women and young men that come from
our rural communities.

Home Economics

The month of February is the yearly
milestone of the Home Economics so-
cieties. This year the societies have
done most remarkable work in patriotic
interests. They have done more than
their share in responding to every call.
Nearly every woman member has con-
tributed to her country's call in some
way. The golden chord of harmony
among the societies will make the com-
ing convention at the College a gather-
ing of unusual interest and instruction
as well as an opportunity to become
better acquainted with one another. It
always gives the writer of this depart-
ment new inspiration to meet the
women in charge of the different so-
cieties. I hope I may have that pleasure
this year.

MANITOU

Manitou, Dec. 14, 1915.

The December meeting of the Manitou
H. E. S. was well attended though the
day was very cold and the roads bad.
Those who came were well repaid for
any effort they had made to be pre-
sent, for the meeting was more than
usually interesting and instructive. Re-
ports showed our Rest Room is becom-
ing better known and more used, and
our work in aid of the Red Cross is
being well kept up. The Red Cross
parcel shipped last month contained 23
surgical shirts, 20 pairs of socks, 24
towels, several rolls of cotton, linen and
cheese cloth and four knitted face
cloths.

Mrs. N. Wood presented to the soci-
ety the sum of \$36.50, the proceeds of a
tea held at her home in aid of the
Red Cross. This money will be used to
purchase materials for Red Cross Work.

Miss Mordin gave a most interesting
talk on woman's part in this war. A

general discussion followed Miss Mor-
din's talk. Tea was served by the re-
freshment committee and the meeting
closed with the National Anthem.

L. M. Gillerlain.

Manitou, Jan. 10, 1916.

The H. E. S. met on Jan. 8th, and
though the attendance was much
smaller than usual, a very pleasant
time was spent and much work accom-
plished. In the absence of our Presi-
dent, Mrs. G. T. Armstrong, the chair
was occupied by Mrs. E. Seymour.
Many suggestions for subjects for the
year's programmes were given and a
committee was formed to attend to
drawing up the programmes. It was
decided to hold a Burns Banquet and
concert, again this year on Jan. 25, and
several committees were appointed to
look after the many details. We had
not intended having this dinner this
year, but so many have asked that it
be made an annual affair the Society
agreed to have it this year, at any rate.
Proceeds to be equally divided between
the Patriotic Fund and the Rest Room.

The report of the Sec. for Red Cross
work showed last month's parcel con-
tained 2 surgical shirts, 17 pairs of
socks, 1 pair gloves, 1 roll each of linen,
cotton and cheese cloth, also five night
shirts and five pairs pyjamas given by
Mrs. H. Bradley. After a dainty tea,
much appreciated on such a bitterly cold
day, the meeting closed with the Na-
tional Anthem.

L. M. Gillerlain.

VALLEY RIVER

The annual meeting of this Society
was held on Wednesday, December 1,
at the home of Mrs. W. J. Boughen.
The attendance was, unfortunately,
small, owing to the inclemency of the
weather, but, after the financial report
had been read the officers were duly
elected for the ensuing year. At the
conclusion of this part of the pro-
gramme Mrs. Weir proposed a vote of
thanks to the retiring president, which
was seconded by Mrs. Kilty. After ar-
rangements had been made for the next
meeting, a pleasant half-hour was spent
around the tea-table. Our Society has
experienced a certain amount of success
during the past year, and improvement
has been manifested in many respects.
With the beginning of a New Year, we
hope to put forth fresh efforts and
advance with yet greater strides.

Mrs. W. Jones, Sec. Treas.

LA RIVIERE

La Riviere, Jan. 4, 1916.

The Home Economics Society met at
the home of Mrs. Evans on Nov. 28th.
There was a good attendance of mem-
bers, and some visitors, also two new
members were enrolled. After the us-
ual business the election of Officers for
the year 1916 took place. Mrs. W.
Wightman, President; Mrs. J. Leslie,
1st Vice President; Mrs. P. E. Durham,
2nd Vice President; Mrs. T. Dunlop,
Treasurer; Mrs. Hephurn, Secretary.
Directors, Mrs. Murray, Miss Keating,
Mrs. McCormack and Mrs. Sutherland.
After some discussion it was decided to
have a social evening instead of the
usual meeting for December, to be held
on the eve of 31st in the Odd Fellow's
Hall. A fee will be charged which will
go to the Red Cross fund. On account
of sickness among some who were to
take part in the Program the social has
been postponed until Friday evening the
7th January.

I will now try and give you a short
report of what our Society has been
doing the last year. During last win-
ter we sewed clothing new and partly



OUR "CHILDREN'S HOUR" BOOK IS AN UNUSUALLY ATTRACTIVE ONE—FOR THE LITTLE TOTS WHO LOVE BRIGHT PICTURES, AND FOR THE OLDER ONES WHO LIKE PRETTY VERSES.

We are sending it out in the hope that it will furnish many happy moments for the little ones into whose hands it is placed. It is, in a way, dedicated to their enjoyment, and, if it pleases them, it will have succeeded in its mission.

Send a 2-cent stamp, with your name and address, and we will forward a copy to you at once.

D. R. Dingwall
LIMITED
Jewellers WWINNEPEG

worn, but good, and packed a box valued at \$100 and sent to the Belgians. Then we made two quilts and some children's clothing to the value of \$17.50 and sent into Winnipeg to some of the needy ones there. During the summer we held three sales of home-made baking, which netted us over \$80, which went to the Red Cross fund, except \$15 (our first sale), which went to our own Society. With part of the money we purchased two bales of flannelette and made up into surgical shirts and pyjamas, also 12 lbs. yarn with which we made 26 pairs socks and one muffler and some wristlets. We expect to get more yarn for knitting, as it is no doubt still needed for our soldiers in the trenches.

Mrs. Wm. Wightman.

Miami, Man., Dec. 16, 1915.

The following is the report of the Annual Meeting of the Miami H. E. S. As the meeting had to be postponed from Sat., Dec. 4th, until Tuesday, Dec. 7th, there was not quite such a good attendance as usual.

The annual report proved satisfactory and was as follows: Nine regular meetings were held and ten papers read. Thirty-eight members were added, making the total paid up membership for the year one hundred and nineteen.

The special work for the year was as follows:

1. Kept the Rest Room open for the year with a matron in attendance throughout the week from ten in the morning until six at night.

2. Helped to organize Boy's and Girl's Clubs.

3. Had Miss Crawford give cooking demonstrations.

4. Worked with the cemetery committee to improve its condition.

5. Collected forty books for a library.

6. Circulated Suffrage petitions and secured about three hundred names.

Receipts amounted to three hundred and fifteen dollars and were from the following sources:

Rest Room Teas	867.65
Fees at 25c.	29.75
Gov. Grant	43.00
Flower Show Grant	25.00
Donations	3.25
Concert	48.90
Dinners given on Fair days, etc.	79.45
Sundries	18.00
Expenditures were as follows:	
Rent for Rest Room	872.00
Salary	115.45
Boy's and Girl's Club	5.00
Delegates' Expenses	5.00
Donated to Hospital Aid Soc.	20.00
Supplies, Furniture and Fuel	52.11
Telephone	9.90
Sundries	67.20

Officers for ensuing year: Pres. Mrs. H. Johnston (Resigned); Vice Pres., Miss Seip; 2nd Vice Pres., Mrs. Wm. Wilson; Sec. Treas., Miss L. Bowman. Directors, Mrs. Staffangers, Miss Collins, Mrs. Kerr, Mrs. Botting, Mrs. V. Johnston, Mrs. H. Johnston, Miss M. Jarnett, Mrs. E. Cruise, Mrs. E. Bruce, Mrs. H. Umphrey, Mrs. Goad, Mrs. C. Helford.

SHOAL LAKE

Sept. 25th. Regular meeting held in the basement of the Methodist Church. Opened with music and roll call. After the business of the day was concluded the program was started. Mrs. Leishman gave an interesting paper on bandages—the different kinds and their uses, then demonstrated her subject with a little girl, Miss Muriel Fleming, as patient.

Mrs. Markle gave a well thought-out paper on the food and care of a healthy infant.

Miss Lawson then gave a reading on the care of an invalid and patient's room.

Oct. 23rd. Regular meeting when Mrs. Blakie gave a paper on Woman's part in War. This paper was so good that it was sent to the M. A. C. for filing.

Miss Florence Sykes gave a reading on "Florence Nightingale." Nov. 27th.

PURITY FLOUR

"More bread and better bread"

Great for growing children because it has all the good of the wheat



42

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

Our annual meeting was held on this date in the Town Hall, when the report of the seven months' work since the Shoal Lake H. E. S. was organized was read; treasurer's report handed in, and business of the year wound up.

Number of members at close of year—48.

Election of officers for following year as follows:

Mrs. Cameron, President (re-elected); Mrs. R. Stevenson, 1st Vice Pres.; Mrs. Bygott, 2nd Vice Pres.; Mrs. H. Sykes, Sec. Treas. (re-elected).

Convener of Program Com.—Mrs. Matheson.

Convener of Membership Com.—Miss Margaret Simpson.

Convener of Room Com.—Mrs. Haggard.

Directors as follows: Four named officers and Mrs. S. Stevenson, Mrs. Lind, Mrs. Stalker, Mrs. Vibert, Miss Nicholson, Miss Jenkins.

Our rest room is a success—thanks to the generosity of the local G. G. A. and Board of Trade who gave us funds to start it and our 10c. tea each Saturday pay current expenses.

Dec. 4th. Miss Crawford gave a demonstration on cookery in the Town Hall, when about 60 ladies attended and enjoyed her talk and explanations about the department in which she so surely excels.

Mother's Corner

WEARINESS OR BEREAVEMENT—WHICH?

A little elbow leans upon your knee— Your tired knee that has so much to bear—

A child's dear eyes are looking lovingly From underneath a tangle of tangled hair.

Perhaps you do not heed the velvet touch Of warm, moist fingers holding yours so tight,

You do not prize the blessing over-much—

You are almost too tired to pray to-night.

But it is blessedness! A year ago I did not see it as I do to-day— We are so dull and thankless, and too slow

To catch the sunshine till it slips away.

And now it seems surpassing strange to me

That while I wore the badge of motherhood

I did not kiss more oft and tenderly

The little child that brought me only good.

And if, some night, when you sit down to rest,

You miss the elbow on your tired knee—

This restless curly head from off your breast,

This hisping tongue that chatters constantly;

If from your own the dimpled hands had slipped,

And ne'er would nestle in your palm again

If the white feet into the grave had tripped—

I could not blame you for your heartache then.

I wonder that some mothers ever fret

At precious darlings clinging to their gown,

Or cap, or jacket, on my chamber are wet,

Are ever black enough to make them frown.

If I could find a little muddy boot,

Or that the footprints, when the days floor—

If I could kiss a rosy, restless foot,

And hear it patter in my house once more;

If I could mend a broken cart to-day,

To-morrow make a kite to reach the sky,

There is no woman in God's world could say

She was more blissfully content than I
 But ah! the dainty pillow next my own
 Is never rumbled by a shining head!
 My singing, birdling from its nest has
 flown,
 The little boy I used to kiss is—
 dead!

BOW LEGS

Mrs. L. H., La.: As you are still nursing your baby at fifteen months, I would consider it wise to wean him without delay. Mother's milk decreases rapidly in nourishing qualities after twelve months. He should be having a little thoroughly-cooked cereal, beef juice, delicately-cooked egg, boiled rice, mutton or chicken broth, and as soon as he has teeth enough, a little rare, scraped meat. Zwieback and a little crisp, dry toast will help develop the jaws. Give him a little thin cream on his cereal. The following will indicate feeding times:

- 6.30 a.m. a cup of warm milk.
- 9.00 a.m. fruit juice.
- 10.00 a.m. breakfast of cereal, zwieback, and warm milk.
- 2.00 p.m. dinner of beef juice, egg, and a little rice; or, broth and zwieback.
- 6.00 p.m. cereal and milk.
- 10.00 p.m. warm milk.

Massage the limbs gently but thoroughly night and morning, using a little fresh coconut oil which is a fragrant semi-solid. Iron in some form is indicated there is anaemia.

EARLY FEEDING

Mrs. A. L., Mich.: At eight months baby is largely dependent upon his breast or bottle feeding. If the child is pale or anaemic, give him beef juice. Broil fresh beef steak and press the juice out. A little metal press which screws down is excellent for this purpose. Give him a teaspoonful diluted with an equal quantity of warm water fifteen minutes before his mid-day feeding. In a couple of weeks double the quantity, and later he might have six teaspoonfuls of the dilution. At a year he will not have more than two ounces of the beef juice.

You might give him half of the codded white of an egg, and later the whole white. Two or three teaspoonfuls of sweet, strained orange juice mid-way between feedings is desirable. At a year old, he can have his regular seven o'clock morning feeding of milk, at nine o'clock his orange juice, at ten o'clock his milk, at from one thirty to two, a couple of ounces of beef juice, or egg with bread crumbs broken in it, or two-thirds of a cup of mutton or chicken broth, together with five or six ounces of milk. At five thirty milk, also at ten p.m.

CARE OF TEETH

Mrs. M. J., Cal.: Wash baby's mouth carefully and thoroughly a couple of times a day with a solution of boric acid. Use a fresh pledget of absorbent cotton each time. As soon as she has a number of teeth,—six or seven, begin to use a soft brush, letting her see you clean your own teeth with a large brush until she gets the idea. When any little specks appear on the teeth, sprinkle a little prepared chalk or milk of magnesia on the brush and clean with this. Milk and other foods lingering in the mouth become acid and soon the enamel of the teeth is destroyed.

AN ANAEMIC CHILD

Mrs. J. C., S.D.—The extreme paleness of your little one who is twenty months old, coupled with the facts that he has a very poor appetite, and has gained but slightly in weight during the last months, shows that for some reason or other he is not thriving. Pay particular attention to his diet and hygiene. He should be in the open air whenever the weather permits. By all means have your physician examine him carefully and prescribe the particular tonic which his condition indicates. Evidently the red blood corpuscles are much too few in number. He may need some form of iron, but anaemia does not always yield to this alone. His digestion and possible

Northland To The Front Again



THE BEST SWEATER IN CANADA FOR THE MONEY

Ask Your Dealer for the **NORTHLAND BRAND**



REGISTERED

The Hall Mark of Quality on

**Sweaters
Sweater Coats**

**Working Mitts and Gloves
Moccasins, etc.**

MADE IN CANADA

**Northland Knitting Co., Ltd.
Winnipeg**



A VERY POPULAR LADIES' SWEATER With Hood to Match

symptoms of nervousness will all be taken into account by your doctor.

Be particular to provide him with beef juice, well-made broths, carefully-prepared and finely-divided, suitable meats such as beef steak, broiled mutton chop, or roast beef. Thoroughly-cooked cereals with rich milk and fresh eggs will supplement the milk for which alone, he seems to have a distaste. Stale bread and butter, zwieback, and unsweetened graham crackers will also be relished.

You speak of beating up a fresh egg in milk, sweetening the mixture, and giving him this. This makes a very heavy, rich drink which perhaps, he does not digest very well. Either divide and dilute the egg nog, omitting all, or very nearly all of the sugar and replacing it with a sprinkling of salt, or try codding the egg and fixing the milk with part of a junket tablet.

WOMEN'S HOME KHAKI

Mrs. Flora Annie Steel, the novelist, shows in the Common Cause how we must re-plan our home life.

"More than three-quarters of the adult women of Great Britain are still unemployed," she writes. "Until every available one of these is at work the wails about overtime and shortage of hands is puerile. We are beginning to realize that the so-called 'skill' can be acquired by anyone of average intelligence in the course of a very few weeks' training. Naturally, there are exceptions, but the majority of the so-called skilled trades can be learnt by anyone who wishes to learn. That is the crux. But if work is held to be a curse, as it is by the mass of the workers of England, you cannot expect quick learners.

"That both these points, if pressed home, would cause a dislocation of our

present ideals of liberty and comfort is true. The first would, of course, bear hardest on the upper classes, who have surrounded themselves with so many dispensables. This house in which I am writing, with fourteen bedrooms and five sitting-rooms, would have to be shut up wholly or in part. The gardens would either have to be worked by women on business lines or lie fallow. Briefly, the 'stately homes of England' will have, for the time, to go by the board. Without motors, possibly without carriages, life in the country will revert to what it was a hundred years ago. But the lack of servants and the lack of money to pay them, will give women of the upper classes plenty of interesting occupation, which their great-grandmothers, who could get a village girl to train on £4 a year, had not.

"The great secret will be to do away, as far as possible, with the dirty work, and the great discovery will be the shortness of the time necessary to do work, provided you have an intelligent interest in it. I have cooked, with only a little bare-foot lassie as aide, for a party of sixteen in a big shooting-lodge, and have been congratulated by a gourmet, at the end of a ten days' stay, on the goodness of my chef. I have done every servant's work in my house from start to finish, and found it light beyond compare. I have always had leisure to write silly novels between times, instead of reading them, as so many servants do, for hours and hours. But we must use every appliance that is made to save labor.

"Women of the upper classes will have to do their own household work to a very great extent. I do not think any intelligent woman will find it necessitates much dislocation of life. Her own dress will be more of a wrench. To dispense with stitchings and frills will go to many a woman's heart; but her let devise some kind of garment for herself, call it her khaki, and I'll warrant me she will not regret even Worth or Paquin."

Name this magazine when writing advertiser

PERFECT AUTOMATIC LIGHTING SYSTEM.

There are few things on the farm or in the farm home that are of deeper concern to the folks in the country or in the country town than efficient, safe and economic lighting.

The problem has been solved by the Matthews Light and Power System which, in addition to its perfect service in lighting every room, barn or cellar furnishes power for operating all sorts of small machinery such as pumps, washing machines, sewing machines, irons, vacuum cleaners, sad irons, cream separators, churns, etc., and opens the way to the use of all the new conveniences electrically operated at a small cost. Perhaps it is not generally known that all these new electrical devices such as irons, toasters, washing machines, vacuum cleaners, cream separators, churns, etc., can now be obtained for 32 volt direct current.

The Matthews Lighting and Power System is the result of nearly twenty years' experience. This time spent resulted in the perfection of an efficient and dependable power plant designed by the most competent engineers—men who knew how and succeeded in accomplishing their purpose. This plant was built for service, and is made of the best materials obtainable. It is made in two sizes—50 and 100 lights—and by lights we mean a standard 20 watt, 17 c.p. lamp. This system is perfectly automatic. It rests upon the engine and generator with its perfectly smooth and quiet operation as a source of supply at practically all times, thus requiring the smallest fraction of attention. All that is necessary is to turn the lights on and use them.

There is no clumsy, dangerous and noisy "belting" attachment. This plant is a direct connected and self-contained one. By "direct connected" we mean it

has no belt between the engine and generator, the engine being specially constructed and made exactly the right size for the generator.

At the present writing me regret we cannot devote the space this important and exceptionally fine lighting equipment is entitled to, but would urge all interested readers to get the complete literature of "The Powerlight Company" who are handling it in Winnipeg, whose announcement will be found on another page. Anyone visiting the city during Bospiel will find themselves well repaid by visiting the Company's warehouse at 216 McDermot Avenue, where the plant and its accessories can be seen in operation.

PERFECT COOKING With "Any Old" Stove

It is done with fuel oil. We have heard scores of farmers' wives, while expressing their admiration of the splendid electric and gas cooking kitchen equipment at the Agricultural College, turn away with a sigh: "It's lovely and all very well, but how are we going to get electricity or gas on the farm?"

An entirely new and simple process of obtaining a uniform heat up to any strength for any cooking purpose has been discovered in P. & D. Oil Gas Burner, which we have seen in operation at 425 Main Street, Winnipeg. We understand that shortly it will be found demonstrating its wonderful capabilities at the Manitoba Agricultural College, as permission to install one has been granted by the College authorities.

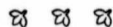
Really, the device must be seen to be fully appreciated as space is not at our disposal to describe it as fully as we should like to, but the main points are:

The burner will fit into any cook stove or range, consequently there is no necessity of buying a new stove or have a range of a particular make. The oil recommended is the cheapest obtainable, costing about ten or twelve cents per gallon in normal times, but at the present moment costing about fifteen cents per gallon on account of the rise in prices of all oils, at the same time the oil is of such low gravity that it is non-inflammable until heated. Safety, simplicity, perfect cleanliness and economy are its distinguishing features. The home cooking is no longer at the mercy of a fitful heat, and no tedious "chores" for the housewife in carrying out ashes or sweeping up dust, nor for the farmer in going many miles on a cold winter's day to the bluffs for wood, sawing and splitting same up and carrying it into the house.

The announcement of the Company who are handling the burner will be found on another page. We strongly recommend any of our readers who are seeking for something that will get them as good results with as little "mess" as they see at the College to write to the manufacturers for their illustrated circular.

POPULAR MUSIC AT A SMALL PRICE

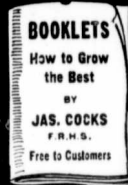
We have pleasure in directing our musical friends or those of them who are desirous of cultivating any little musical genius of which they are possessed to the announcement of a Winnipeg firm, "The Popular Music Supply Co., on page 40 of this issue. We add our guarantee (set forth on editorial page) to that of our friends who guarantee perfect satisfaction or your money back. That is the true sportsmanlike spirit and the only way in which a real business relationship can be established and maintained. This company carries a large stock and a very wide assortment of both popular and classical productions and their prices are certainly remarkable.



Jack Hazard, the comedian, has a letter from a friend in Boston which he treasures. The letter contains a bona fide account of an answer made by a grammar school pupil in Boston during the course of an examination in English.

The youngster, a boy, was called on to spell and define the word hazardous. This was his reply: "H-a-z-a-r-d-e-o-u-s—a female hazard."

STEELE, BRIGGS SEEDS
Farm and Garden
A WISE SELECTION



Plant these Seeds because they have been TESTED and SELECTED with care for this climate by the introducers of nearly all the famous new varieties that have made good in the West.

WRITE TO-DAY FOR CATALOGUE

STEELE, BRIGGS SEED CO. Limited
WINNIPEG, MAN.

Cured Without Drugs or Surgery



Dr. Hugh J. Munro

There is only one "treatment" for scepticism, and that is to see the thing done.

For a long period Dr. Munro has been treating hundreds of people afflicted by many kinds of physical ailments—not a few of which have been pronounced incurable by eminent physicians and hospital authorities.

Dr. Munro uses the simple and natural means called

CHIROPRACTIC

And he doesn't charge for Advice and not a dollar for his Services unless he succeeds to the Entire Satisfaction of his Patient.

Read these out of many hundreds

1930 Elgin Ave., Winnipeg, Feb. 2, 1916.
Dr. Munro—I feel it my duty to write a few lines to thank you for restoring my eyesight to what it is today. Since April, 1909, I have had what the eye specialist called diplopia, my eyesight kept failing. I was ordered glasses. I got them. Sometimes my sight would get so bad that it was necessary for me to be led around. I never knew one day from another when I would have to quit work and stay home, sometimes for days, sometimes for weeks. This went on for about three years. At last I was discharged as cured. In spite of this these attacks kept coming more often, till last spring I was ordered two pairs of glasses to be worn together. I wore them all last summer, until September, when I had to quit my work again. Friends of mine urged me to go and see Dr. Munro. At last I went. To-day I am able to take my place as bread winner for my family. My eyes are better to-day than they have been for years. I seldom wear my glasses now, thanks to Chiropractic. People who know me are surprised to see me without glasses, and all say they never saw my eyes looking so well. I feel I cannot express my gratitude in words for your cheerful patience and perseverance. I will certainly recommend your treatment to anybody ailing as I was. You are at perfect liberty to use this as a testimonial how or whenever you wish. Anybody in doubt call at the above address and be assured. Thanking you for the way you handled my case, I remain, yours sincerely, William Harford.

Care of Mrs. Paton, 200 Dromore Avenue, Winnipeg.
Sir,—I am writing to tell you how splendid I feel after taking your "adjustments." Before I came to you I could not sleep properly. When I did sleep, then the pain in my back and the numbness in my arm and hands used to wake me up, and I would have to get up and rub my hands until I could get the circulation back. I had pains in my head when I laid down that I used to think I would have a fit. Naturally I got into a nervous state, and the least noise used to irritate me. After the first week's adjustments I have not suffered either with my head or the numbness. The pain in my back has completely gone. Only those who have suffered with their back can tell what that means to me. For from September, 1913, until now, have I ever been free from it day or night. Another matter which seems wonderful, after my fall, which jarred the muscles of my neck, so much that I could not turn my head properly. After two adjustments, I never felt the least soreness or stiffness. If at any time you think some one would like to ask me about myself before I came to you, I shall be very glad to either see them or to write, and I know the lady with whom I live will also be glad to speak of the good you have done me. If only those who think that there is no cure for them would only try you, they would have a different outlook on life I am sure. I just long to tell the sufferers that there is hope for them. Thanking you for your attention to me. I am, yours very gratefully, M. L. Taylor.

Fulltest Particulars Free to Any Address
Dr. H. J. Munro 31 Steele Block, Winnipeg, Man.
PHONE Main 234

Gold Standard

"I like Gold Standard Extracts chiefly because of their Purity and Strength. Other kinds are so extravagant, but with Gold Standard the slightest drop will flavor a dish beautifully, and every flavor is true to its name."

25 FLAVORS

Purer and Stronger than the law requires. Full purchase money refunded if they fail to give you entire satisfaction.

FLAVORING

EXTRACTS

NERVE TROUBLES from Drink—Drugs—Tobacco successfully treated by the Keel's Cure, without suffering. Is given only by doctors at the Institute or the patient's home. Address—676 Jessie Avenue, Winnipeg.

SHIP YOUR
FURS AND HIDES
TO **McMILLAN FUR & WOOL CO.**
WINNIPEG, MANITOBA
Write for Circular

SUNNYSIDE ORCHARDS

Located in the FAMOUS COLD-STREAM DISTRICT, the heart of the best Fruit Land in the OKANAGAN VALLEY.

THE government statistics of 1912 show that twenty acres of 1903, apples grown in the Coldstream Orchards took the place in open competition against the world. It would be difficult to get better proof than this of the choice quality of the fruit grown in this locality.

Apart from growing all varieties of apples, pears, plums, etc., this land is unequalled for the production of all kinds of vegetables and small fruits. This is a valuable asset, as splendid crops grow between the rows of trees.

We are sure that it is beyond question when we say that the climate in this part of the Okanagan Valley is, without exception, the nearest perfect you can get anywhere on the North American Continent. Hundreds of residents from Washington and California are buying property in the Okanagan, and locating there in preference to the South.

We are putting this property on the market in blocks of from 5 to 10 acres, some of which are in full bearing orchard, and showing handsome returns. The prices range from \$200 to \$800 per acre, according to the location. This is about 50 per cent less than is being asked right to-day for inferior property. To responsible bona fide purchasers, we will arrange very attractive terms. To non-resident purchasers, we guarantee first-class attention to the property at a nominal charge, as we have an expert orchardist with a competent staff to look after same. Buildings erected to suit purchaser on any of the property on easy terms of payment.

This property is convenient to post office, schools, stores, churches, etc., and to the prairie farmer we say, "Buy, buy now while you have the money, and are blest with prosperity." Some day your heirs will thank you, and appreciate the investment you made, whether looking at it from a social or financial standpoint, as this choice property will undoubtedly increase in value.

We have other choice property in British Columbia, on which we would consider an exchange for prairie farms or city property. When submitting an exchange proposition give us all particulars of your property. This will save unnecessary correspondence.

For further information apply to:

THE PRAIRIE & OKANAGAN REALTY & DEVELOPMENT CO., VERNON

OUR OWN FRUITS LANDS

"Life" is largely, if not entirely, what one cares to make of it. The lives some of us lead are hardly worth the name of "existence," having regard to the penalties we impose on ourselves—the miserable deprivations no less than the foolish extravagances.

Considering all that is within reach, say of those of us who have been accustomed to spend our lives on the prairie, how much of it is wisely appropriated and how much more is thoughtlessly flung away? No one can visit a home—on almost any section of the more settled portions of the prairie provinces without meeting some case in which it is evident that the time was ripe for a well earned retreat and resting spot for at least the older members of the household.

These fine old folks (and younger ones too who are constitutionally unfit for the extremes of temperature and the un-

ceasing grind that is necessary to make a "success" in these times), have a right to something better and easier and still in perfect harmony with their life-long habit. Some of them have found a certain amount of daily toil imperative to their enjoyment of life and they would quickly snuff out if suddenly planted in an easy chair and forbidden to move from it till bed-time.

There's a haven of rest and comfort for these people, within little more than a day's journey from where they are now located—the garden spot of their own glorious country. British Columbia seems to have been designed by the Great Designer of this wonderful country as a place of refuge from the more rigorous and exacting conditions of other portions of the grand scheme. Here, without spending one hour in wasteful idleness, one can labor gently—indulge in what is positively nothing more than mere recreative employment and still be "making" as much as was ever earned in the same time; that is if the purpose is to still go on "making."

But the farmer's partner—his splendid

wife who has in many cases done far more to make him than in his obtuse way he will ever admit, deserves something far else than mere transportation to a new "sphere of toil."

In the famous Okanagan Valley—beautiful alike in point of scenery and climate—there is all that human heart could desire. That it is an ideal place to live in for the "well fixed" individual and his family no one dares to contradict. Its social amenities, salubrious air, sporting facilities and all that appeals to the recreative side of life have been written about and embellished until it is needless to pursue it. Where men argue is as to the commercial value of an interest in the Okanagan.

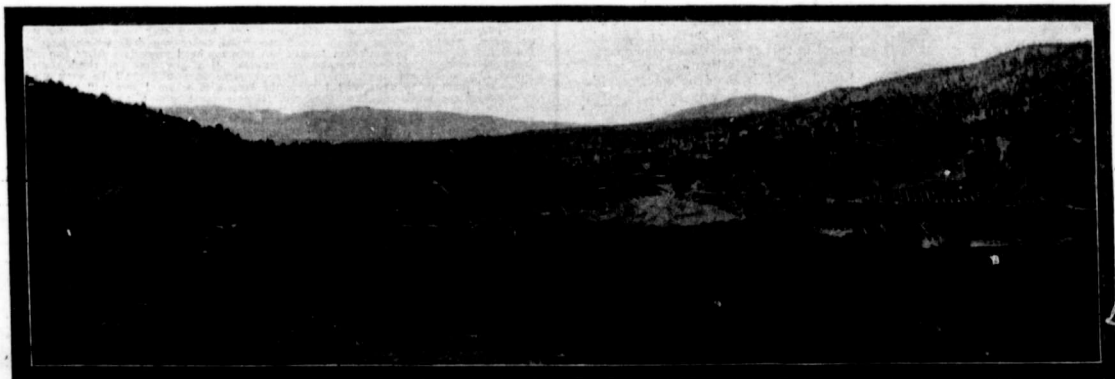
Well, having sampled it and having knowledge of those who have lived in it, produced in it and sold their products, we have no hesitation in saying that the economic possibilities of a five or a ten-acre plot are unsurpassed to the person (male or female) who is endowed with ordinary common sense and will simply give reasonable application of the special knowledge required to raise

the finest quality of fruit that will command a price on the market.

It is just like farming grain or raising stock—it depends on the farmer. Only that here it is entirely within the mark to say that with a fraction of the labor expended on running the ordinary "mixed" or grain farm, no less satisfactory financial results can be obtained than were realized from the bumper grain crop in the year of grace 1915.

British Columbia and the Okanagan Valley in particular has received no set back in the esteem of men that has not been given to it by folks who have gone a fruit-growing but who by temperament or outward circumstance had no right to embark on this finest of all the fine arts in cultivation.

We are glad to notice that the "Prairie and Okanagan Development and Realty Company, of Vernon, are taking hold of one of the finest properties in the valley and we shall be happy to respond to any interested or doubtful inquirer as to what we know of this corner of our Dominion and what some of our friends have realized there in actual profits



WHERE TRADE IS HUMMING

If "conditions" were ever so favorable, business would never come to some people for the simple reason that they do not court it. Advertising or publicity through the ordinary channels of the press and bill-boards can bring lots of horses to the water but unless you've got a good thing you cannot coax one of them to drink unless he has lost his sense of "Smell."

One of the very best instances in sight of a good thing advertising itself is that of the products of the Northland Knitting Company of Winnipeg, whose specialities have been referred to in these pages from time to time. The "Northland" mitts and gloves and the "Northland" knitted sweaters and sweater jackets have found their way against the keenest possible competition into every corner of the Western market.

Up to the end of January the "Northland" Salesmen have sent in more business for Spring and Fall delivery than they had booked in the year of 1915 up to the end of May. They have found that the Western Merchants and Consumers realize after trying out Western made goods that they can get as good value as can be procured on the market, and by buying in Winnipeg they get better service and have less freight to pay. At the same time the Westerners are getting enthusiastic over their own country to a degree unknown a few years ago and see the wisdom and therefore the duty of keeping money in the West and helping Western Producers.

The mitt and glove department has been running full blast since the first of June last without a let up, and the company is advertising for extra help in order to overtake the large volume of orders it has ahead at the present date. More than sufficient work is on order to keep a twelve hour shift busy for several months to come.

The now famous "Casey Jones—the Dollar Glove" which this company put on the market some six months ago was the thin edge of the wedge that opened up a big inroad into many mitt and glove accounts which had been extremely conservative and difficult to move. It opened the eyes once for all of these cautious buyers to the intrinsic worth of other special lines which are being manufactured in Winnipeg under the Northland Brand.

The Sweater department has also es-

MME. FORMAN—Corsetiere, Paris Arcade Winnipeg, Gossard and Mme. Irene Corsets Medical Fitting a specialty. Phonos, Home Pictorial Review Patterns. Mailorders solicited

Perfectly Pure,
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Put up in Cases of
Pints and "Splits"

At your Dealers,
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E. L. DREWRY
Limited
WINNIPEG

established an extraordinary record, and although the twelve months of 1915 was the largest producing year the company ever experienced in this particular department, it feels confident that 1916 sales will be nearly if not more than doubled. The only difficulty at the present moment is that of obtaining raw material in sufficient quantity to meet the demand for the finished product. Confidence is expressed, however, that this will speedily be remedied as the Northland Company has been fortunate in contracting for a large shipment of woollen yarns which is now in transit from Great Britain.

THE NEWSIE'S PRAYER

By Marjorie M. Carroll

You're nothin' much to look at, but I like you jus' the same;
Say Bill, I often wonder how I lived before you came
To cheer me up 'n comfort me when I wuz feelin' blue—
Why Bill, I couldn't get along without a friend like you!

When times wuz hard, 'n all the lads gave me the icy mitt,
'N when I'd lost my hold on things, old pal, you didn't quit,
You plugged along, you good old chum, till only skin 'n bones
Wuz left on you—'n then, 'twas me gave all the groans!

You never even whimpered when that big truck run you down
You jus' lay there 'n looked at me, from them big eyes 'n brown
'N looked at me—'n looked—until I thought my brain 'd give,
'N now I'm on my knees, Bill, prayin' God'll let you live!

I don't know much religion, Bill—I only know you're hurt,
'N if by prayin' you'll git well, I'll kneel here in the dirt
'N say, O Lord, he can not ask for himself, cuz he's dumb,
He's jus' a poor old crippled dog—but he's my precious chum!

WHY IS A PUNISHMENT

By Lynn Davis

WHY DO we punish children, really and truly?
It depends, no doubt, on when and how we do it.

I once heard a mother say, "If I didn't punish them on the impulse, when I'm angry, I wouldn't do it at all. I couldn't hurt my child or his feelings if I sat down and thought about it. In a way, this sounded very loving, but was it not mere sentiment rather than true parental love? And by denying her children punishments when she can control her temper, isn't she planning for them hurts a great deal more serious?"

It is interesting, in living with children—strange little promises or threats—to get right down to rock bottom level of their minds, not cure, and to seek to discover whether or not they really understand that a thing is wrong, and why! There is nothing that is wrong for a child that is not wrong for an adult and that, in some form, is not forbidden in the commandments of God or in the civil laws of his country. Surely there are few children so stupid that they cannot, in imagination, see the results of wholesale infractions of these laws and therefore the reasons for them, if someone will only take the time to explain!

I have heard persons say, "It is all foolishness to explain to a child why he must obey. He just must learn to obey, that's all—to do a thing because he is told to!" Of course, obedience! But why not let the child enforce it on himself as he will do if his reason is appealed to, and he understands that conformity to certain laws is a necessity of life, imposed by unavoidable existing conditions, for the best good of himself and of everyone else. There is nothing that encourages defiance or that results in a broken spirit so much as the imposition of enforced, blind obedience—often to dogmas and whims behind which there is no reason!

THE WEST IS OUR FIELD

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CORN—Early Malcolm
482. We have never offered such a choice and early variety. Every user of sweet table corn should try it. The Experimental Station, Ottawa, report it "The earliest they have ever grown."

PEA—Quite Content
A valuable acquisition of recent introduction.

It is a main crop variety growing giant pods containing proportionately large luscious peas. Our stock is high grade.
Packet 6c; 1/2 lb. 25c
1 lb. 40c; postpaid

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An early variety destined to take the place of older sorts. Produces pods of deep green, has containing 7 to 9 handsome peas of exquisite flavor. A strikingly distinct mercurial pea, which every garden lover should grow.

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Only one recognized, viz., **THE BEST** the season produces—no other will do
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Get in on our Choice Stocks of WHEAT, Gold Standard, Marquis, Red Fife, Registered: RYE, Spring and Winter.
The coming crops of the West—do not miss these.

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Have you never heard of nor seen the child who was "ruined by too much discipline?" When Boy runs on Neighbor's grass, Neighbor would punish Boy for the good to his grass and himself; Boy's mother would punish him to try to give him the important sense of other people's rights, of the laws of possession, and of kindness—at least that is why she would think she was punishing him. If then, she applies, or gets father to apply the brush, or starvation, or whatever "the punishment," of that household is, with no words but, "Don't you ever do it again," where comes in the education of Boy as to anything but the power of adulthood? He may not be—he is not, if he is a normal

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Contains 22 varieties of our Reliable Vegetable seeds in packets and ozs. 2 1/2 lbs. of seed for \$1.25 prepaid.

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15 packets of Reliable Flower Seeds for 25c. prepaid.

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Contains 1 lb. mangel, 1 lb. Sugar Beet, 1 lb. Swede, 1/2 lb. Carrot, 1/2 lb. Kale and 4 lbs. Rape—5 lbs. seed for \$3.00 prepaid.

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For \$10 cash with order we will send prepaid to any address—

- 50 Currant and Gooseberry bushes of best varieties.
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All of above for \$10.00



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We have growing in our Nursery and offer for sale:

- 500,000 Caraganas, 1 to 3 ft. high.
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- 5,000 Crab Apple and Plum Trees and a large stock of all hardy fruits, ornamental shrubs, plants, etc.

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With its Colored Photos showing the improvements being effected by the use of our trees and quality seeds. We list all the hardiest and best varieties of Vegetables and Flower Seeds, Fruits, Trees and Shrubs, Grasses, Fodders and Seed Potatoes.

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THE PATMORE NURSERY CO. LTD. BRANDON, Man. SASKATOON, Sask.

child—given to sitting quietly and establishing by careful processes the reason for his punishment. He has to be helped to this, and not by the rod!

About the only thing in Boy's mind is a love of experience, which entirely coats, cheerfully.



MISS MARGARET KENNEDY, Professor of Household Art, M.A.C.

or at least dusts everything else that goes through his brain-ears. So his reflections on the foregoing incident are only, "We've got to play somewhere! What's the ground for anyhow?" followed by perhaps a devising of some means of escaping the

next punishment. Here, too, the element of excitement enters in, the adventurer escaping pursuing justice. So the punishment has failed in its purpose.

"What will your mother do to you?" I once asked a child of five.

"She won't do nuthin' but beat me!" cheerfully.

"Don't you mind that?"

"No, cause she does it so much." Then with a twinkle, "I put things in my pants! Once I put a baseball glove. Walter, he puts in his tablet every time." I think it's this best joke imaginable. I think it's a pretty good one, myself! But were his whippings doing him any good? Think back! Can't you remember how you exercised, perhaps over-developed, your astuteness by getting around such regulation punishments? Forewarned is forearmed! This child got "a beating" for every offence, large or small, so he forearmed himself with a baseball glove. One child I know stole from the pantry before or after every misdeed—for his punishment was always "no dinner."

Endeavoring to train a child by means of physical punishments seems almost the same as trying to change the religion of a church by painting it a new color or by throwing stones at it. They do not touch the real child—his heart, his mind, his soul. What he will be playing the minute the punishment is over and he is out again will be of much more importance than the almost intangible effect made on his mind by his late encounter with 'physical justice,' and Neighbor's grass will become in a second, wild prairie or battle-field. Then we say, "Can't you remember? I'll make you remember."

Deal with his mind instead of with his body and he will remember. It may take a little longer to get a mental response than to make the body smart, but at least, it saves time—and the child—in the end.

The "I and Thou" is a chord, which, struck on the right key according to the child and his age, never fails to bring an echo from the understanding and the heart. Of course, to say to Boy, "How would you like someone to run on your grass?" would have about as much effect as to "lick him with a straw," to use his own expression—that is, absolutely none, because as yet grass means nothing to him, his own or his neighbors', except a place to play. But say to him: "How would you like someone, when playing or working, to pull down all your baseball pictures, to break up your boat you took so much time and trouble to make? Mr. So-and-So has spent as much work on his lawn as you have collecting your pictures, and it means just as much to him!" Here you touch him on a live wire and you make him feel it, quickly enough realizing the laws of possession and other people's rights.

One of the most effective punishments I know is the enforced apology. Almost any child will heed this much more than a whipping or a cuffing. Boy, for instance,

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is not enthusiastic about humbling himself; all his ideas and occupations tend, straight as an arrow flies, in the other direction. Then to insist that because he has hurt Neighbor's grass and feelings, he apologize, is going to hurt and hurt bad—lots worse than a whipping or bread and water for dinner—because it strikes at his very soul, his boy nature, self-aggrandizement and supremacy.

It is the punishments that apply directly and that are chosen because the misdeed has made them necessary, that fill. If he insists on breaking people's windows, let him work for the money to pay for them. If he steals, he must, by his own labor and his own admission pay back.

There are faults for which treatments, rather than punishments are most effective.

Cruelty, for instance, can be reached more quickly by kindness and appeals through stories to the emotions, than by return cruelties of whipping. And always, always should there be the quiet talk explaining "Why!" A child's mind is a question mark—Why? Why? Why? he asks or wonders, if asking has been discouraged. Is it not dangerous to allow him to answer his own "Whys" and arrive at false, maybe fatal conclusions about life and its laws?

"Do you know why you mustn't steal?" I once asked a child.

"Cause if anybody sees you, your father'll have to pay for it, and he hasn't got enough money."

This was the side that had been most impressed on him. Follow this child's

mental processes: stealing is all right if you can get away with it!

Why is a punishment, then? Is it, as the mother above quoted suggested, in concession to our irritated nerves or temper, or is it simply because we realize that children are human beings, 'even as you and I' doing wrong because of ignorance, because they forget, because they are weak, because the wrong often, and the experience always, are attractive?

Then the appeal has got to be made to something that is more than human, that is strong enough to control the human—the soul! The part of him that is not animal must gain control over that part of him which is. Control! There is the foundation. Punishment should be but development of self-control—supremacy of mind over body. Can you think of any wrong-doing or crime that is not due directly to lack of self-control—control of greed, of temper, of morbid malice, of animal spirits? The child who, at five, can resist a lump of sugar, at ten, twenty, thirty, can resist more dangerous things!

Speaking of control brings us to another point. Children are primarily imitative. Can one expect to teach control when one has none? A child realizes thoroughly which punishments come to him because someone was "in a huff" or "mad as a wet hen."

In this connection it is interesting to think of the origin, use, and meaning of courts—places of punishment. They are but an admission that when anything comes close to one, his feelings and emotions dominate and control that higher part of him—reason. So, in justice, the affair is appealed to unbiased minds, able to see all sides. They can weigh the causes, not alone the results. Murder is a crime, and the instinct of the man who is touched by it is to punish in kind; but the calm reason of unbiased minds can weigh "self-defence" against the result and arrive at fairer retribution.

A recent course of observation in juvenile court work showed that this institution, which has such astoundingly good results, uses for its maxim "Instead of reformation, the thought, and idea should always be, formation!" Here the child is seen as a creature immature and crystallizing, and at the same time as a future finished product which will show in every attitude, thought, and deed the care and influence of his childhood. In this court, temper and impatience have no place. "Why did he do it? Then we'll remove the cause!" "What course will save him from doing it again?" "What will make him realize, with the strongest appeal to that best in him, his mind and his spirit, that that deed was wrong and another right, therefore more attractive?" "We find that 90 per cent of the offences of childhood are due entirely to wrong treatment and influences at home!" is a direct quotation from a man with years of experience in this work.

Hence, in punishing or in treating, not the least important consideration seems to be, on the part of the adult, a controlled and understanding state of mind, in which reason, not temper, holds sway and dictates the best course for the correction of this tendency and the highest formation of the child.

Very often a sympathetic search for the "why did he do it" shows the act to have been the ignorant output of a really commendable motive. There is nothing that brings to the eyes of a child that hurt look of anguish and draws him into his shell to suffer, as surely as such mis-understandings of his motives. To get his confidence and love will in more cases than not show a something if not legitimate or noble, at least natural behind his so-called misdemeanors.

It's the grown-up who "remembers" that understands children, gains their confidence and love, and turns them out in the mold of ideal manhood and womanhood.

Neville, Sask., Dec. 2, 1915.

Dears Sirs:—The regular meeting of the Neville Homemakers met on Nov. 18, at the home of Mrs. A. R. Marquardt. Arrangements were made for the Tipperary Social held on Nov. 19, and the officers for the new year were elected as follows: President, Mrs. L. Burton; Vice-President, Mrs. A. R. Marquardt; Secretary-Treasurer, Mrs. R. Good; Cor. Secs., Mrs. W. F. Dixon, Auditors: Mrs. W. Marjesson and Mrs. J. Bowers. Directors: Mrs. M. Allen, Mrs. T. Robins and Mrs. L. A. Stutzman. Programme

Fairweather's Mid-Winter Sale

This year you may take full advantage of this great purchasing event of the season. If you are coming to Winnipeg during Bonspiel Week, visit the store personally. If not, write for a copy of our Fur Sale Bulletin

FAIRWEATHER'S FURS

At Greatly Reduced Prices

Without doubt the finest assortments that Fairweathers have ever had at this period of the Fur Selling Season—made up from skins and other materials were at lowest market prices, and on which present selling prices were based. Another season you may have to pay 25 per cent to 100 per cent more for equal quality.

WE PAY EXPRESS CHARGES

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When remittance accompanies your order, goods are shipped the same day, express prepaid. If same are unsatisfactory on arrival you may return them at our expense, and your money will be cheerfully refunded. Surely this is the guarantee of satisfaction. Be well advised and secure best choice when the stocks are complete.

Write For Our "Fur Sale Bulletin"

We have prepared, in catalogue form, a list of the very special values we are offering—the same bargains from which our Winnipeg customers select who buy personally at our store. Secure this and take full advantage of the sale. A postal request will bring it to you.



RUSSIAN MUSKRAT COAT
Ladies' Russian Muskrat Coat, beautifully matched skins, lined with guaranteed satin. Regular \$125.00. For..... **\$97.50**

SABLE MARMOT COAT
Ladies' Sable Marmot Coats. Clearing 12 odd garments, length ranging from 24 to 32 inches. Shawl and notch collars, all nicely lined with brown silk satins. Sizes 32..... **\$39.50** to 35 only. Regular \$75.00. For.....

MUSKRAT LINED COATS
Special Driving Coats of heavy black beaver cloth shells, best Muskrat linings, collar and lapels of fine Canadian mink. Specially priced at \$75.00. Clearing at..... **\$56.50**

BEAVER COATS
Men's plucked and unplucked Beaver Coats, very dark natural color. Absolutely undyed, exceptionally well made and lined with best skins. Regular \$300.00. For..... **\$150.00**

RACCOON COATS
Men's Raccoons Coats, made from very fine carefully matched skins, very uniform, natural color, high storm collar. Specially priced at \$85.00. For..... **\$68.00**



RED FOX SET
Large Two-Skin Stole, trimmed with heads, jaws and natural Irish; large two-skin Princess Muff. Regular \$70.00. For..... **\$46.50**

BLUE WOLF SETS
With Two-Skin Shaped Stole, trimmed with tails and paws. Fancy pillow Fur Muff to match. Reg. \$33.00. For..... **\$17.50**

BLACK LYNX SET
Very Attractive Stole in animal effect, trimmed with heads, tails and paws. Large pillow Muff to match. Regular \$140.00. Special..... **\$70.00**

FUR-LINED COATS
Men's Marmot Lined Coats, Sable Marmot Shawl collars, durable beaver cloth shell. Regular \$35.00. For..... **\$25.00**

MUSKRAT LINED COATS
Black Beaver Shell, fine Persian Lamb collar, strictly tailor-made garments. Regular \$100.00. For..... **\$66.50**

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Fairweather & Co., Limited

**297 - 299 PORTAGE AVENUE
WINNIPEG**

Committee: Mrs. J. Benson, Mrs. W. True and Mrs. S. T. Bowles.

A dainty lunch was served by our hostess and Mrs. Hillstrom.

At the social the following evening \$17.00 was realized by the club. This will be used to aid those in the district who suffered from the recent prairie fires.

On Nov. 26 the club was visited by Miss Harrison, of the Dept. of Agriculture of Saskatchewan University. In the afternoon Miss Harrison spoke on "Food Values," and many valuable suggestions were given. In the evening there was an open meeting. Mrs. R. R. Bowers, accompanied by Mrs. Brande, gave two violin solos, which were much appreciated. Miss Harrison was then introduced and gave a very interesting sketch of the rise, growth and work of the Homemakers' Organization. At the conclusion a hearty vote of thanks was tendered Miss Harrison and the wish expressed that it would not be long before she would again visit us. A solo was sweetly rendered by Miss Ranks, the P.S. teacher of Minot. Collection was taken in aid of the fire sufferers and the evening programme closed with the National Anthem.

Yours truly,
Mrs. W. F. Dixon, Cor. Sec.

Friends in Time of Need
Neville, Sask., Jan. 10, 1916.

Dear Sirs:—The December meeting of the Neville Homemakers' Club met at the Ladies' Rest Room in the hotel. It being a busy season, only a few ladies were present; however, a very enjoyable and profitable time was spent. During the meeting a committee was appointed and went to interview the mounted police to ascertain those in need who had suffered from the fall prairie fires. They returned with a list given them by the local police. Action was taken at once by the members present in the appointment of a committee consisting of three members and three men, who met later to decide the most needy cases to whom help should be given. The rest of the program consisted of a paper by Mrs. S. T. Bowles, which gave some very helpful items regarding "Preparations for Xmas Dinners." Mrs. J. Benson told how many "Last Minute Gifts" could be quickly and easily made, and Mrs. R. Good gave a few interesting hints on "Xmas Decorations." The ladies were then served with a dainty lunch by Mrs. W. J. Sutta.

The meeting broke up with the good wishes for the season.
On Saturday, December 18, the relief committee met. After some discussion

it was decided to divide the twenty-four dollars raised among four needy cases, sending nine dollars to one and five dollars to each of the other three. Cheques were sent through the mail by the secretary.

Yours truly,
Mrs. W. F. Dixon, Cor. Sec.

Theodore, Sask.

Dec. 20, 1916.

The December meeting of the Homemakers' Club was held at the home of Mrs. O. A. Thomas. Christmas ideas and illustrations by the club took up considerable time. Mrs. Tracy gave an interesting report on the convention, and after discussion on Dr. Anna McEvens' paper, a committee was appointed to meet the school board in regard to serving one hot dish each day to country pupils. Christmas carols by the club and a solo by Mrs. Percival were much enjoyed. A pleasing part of the afternoon's entertainment was the presentation of a cut glass bowl to the retiring president, Mrs. Burnard. She was instrumental in forming the club and has been president since its inception. The January meeting will be held at the home of Mrs. Hans Hansen, on the third Wednesday of the month.

WITH THE SAGES

We make ourselves more injuries than are offered to us; they many times pass for wrongs in our own thoughts, that were never meant so by the heart of him that speaketh. The apprehension of wrong hurts more than the sharpest part of the wrong done—Feltham.

Thou must content thyself to see the world imperfect as it is. Thou wilt never have any quiet if thou vexest thyself because thou canst not bring mankind to that exact notion of things and rule of life which thou hast formed in thy own mind.—Fuller.

Be rather wise than witty, for much wit hath commonly much froth, and it is hard to jest and not sometimes jeer too, which many times sinks deeper than was intended or expected, and what was designed for mirth ends in sadness.—C. Trenchard.

A man cannot speak but he judges and reveals himself.—With his will, or against his will, he draws his portrait to the eye of others by every word.—Every opinion reacts on him who utters it.—Emerson.

The world is a country which nobody ever yet knew by description; one must travel through it one's self to be acquainted with it.—Chesterfield.

Except a living man there is nothing more wonderful than a book—a message to us from the dead—from human souls whom we never saw, who lived, perhaps, thousands of miles away, and yet these, on those little sheets of paper, speak to us, amuse us, vivify us, teach us, comfort us, open their hearts to us as brothers.—Charles Kingsley.

It is in thy power, whenever thou shalt choose, to retire into thyself. For nowhere with more quiet or with more freedom from trouble does a man retire, particularly when he has within him such thoughts that by looking into them he is immediately in perfect tranquility.—Marcus Aurelius.

As ships meet at sea, a moment together, when words of greeting must be spoken, and then away into the deep, so men meet in this world; and I think we should cross no man's path without hailing him, and if he needs, giving him supplies.—Henry Ward Beecher.

Blessed are they who have the gift of making friends, for it is one of God's best gifts. It involves many things, but above all, the power of going out of one's self, and appreciating whatever is noble and loving in another.—Thomas Hughes.

A gifted, gentle, patient, valiant human soul, which buffets its way through the billows of time, and will not drown, though often in danger, cannot be dented, but conquers and leaves a track of radiance behind it.—Carlyle.

HEART HUNGER

For my own part I do not profess to know God intellectually. Yet I feel my need of Him, and sometimes I feel it so acutely as to make it easy for me to believe that He is Himself creating that hunger of the mind and heart.—Joseph Parker.



Irish Sergeant: "Keep yer head down there! Don't ye know that's the very place that Mike Rooney was shot through the foot!"

WAR WEDDINGS

Some of the war weddings should be quite phenomenally happy if the old saying

"Happy the wooing
That's not long a-doing,"
is true.

For example one that took place the other day was so hastily arranged that the engagement and marriage took place within a day and a half. It was a busy day and a half for the family, but they managed somehow to get the wedding-cake, the trousseau, and the special license all ready in time.

The bride had been told by a palmist years ago that she would be married before her twenty-fifth birthday—and she was, but with only a day or two to spare.

Wooings that are long a-doing are very few and far between in war-time.

A CAMP CHANTY

In one of the training camps this is the ditty they sing (in a soft, minor key) when extra duty has to be done:

We're little children, mild and meek;
We only get six bob a week;
The more we work, the more we may—
It makes no difference to our pay.

They sing it to a hymn tune—very fast or very slow, according to the nature of the work. A party of them sang it one day on the top of a 'bus, and an old lady in the street below, who took it for a real hymn, smiled at them with benevolent approval.

GIVE THEM A CHEER

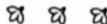
Quiet crowds in the busy town,
Watching the troops pass through;
I marvel ye stand so silently

While they march to their death for you.
Some have left home and little ones;
Each has left someone dear;
So throw your reserve to the winds of Heaven
And Give them a rousing cheer!

You can see how their tired eyes light up;
While burdens hard to bear
Grow easy as if by magic wand

When they know that you people care.
Ye have cheered Italia's dark-skinned sons,
And rightly too I say;
But have ye no shout of encouragement
For our own brave men today?

Men who have fought in our old campaigns
Who followed K. of K.,
March side by side with the eager boys
Who have got their first kit today—
Young and old men, grave and gay,
In the cause of Liberty—
So throw your reserve to the winds of Heaven,
And hail them with three times three.
—C.M.S.



"Hints on courtship abound. Every magazine will tell you how to win a wife. Anybody will gladly post you on the etiquette of love-making."

"What's on your mind?"
"But after a man marries he has to sault completely for himself."

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MOST RELIABLE
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AT BEST DEALERS
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The same old name—The same old package
The same fluffy, white powder
The same certain death

It never fails to kill. Gophers are attracted by its odor and hunt for it. They like its sweet taste. The tiniest particle kills instantly. **SAFEST**—no danger in handling. **EASY TO USE**—simply stir into moistened oats or ground feed, then drop into holes or near them. **QUICKEST**—one application kills all gophers. **CHEAPEST**—costs 1 cent an acre. **GUARANTEED**—we return your money, if it fails. Guaranty on every package.

3 sizes, 50c, 75c, \$1.25; enough for 40, 80, 160 acres. Don't be misled, get the genuine Kill-Em-Quick from your druggist. If he can't supply you, we ship direct upon receipt of price. Send for FREE Gopher Book



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S.H. Henderson, Pres. E. H. Dewart, Vice-Pres. C. D. Kerr, Treasurer

The WAWANESA MUTUAL INSURANCE COMPANY

HEAD OFFICE: WAWANESA, MAN.

A. F. KEMPTON, Secretary-Manager

Amount of Insurance in force Dec. 31st, 1914	868,000,000.00
Assets over Liabilities	9710,000.00

THE NUMBER OF FARMERS INSURED, 31st. Dec. 1914, 87,178

The Largest Farmers Mutual Fire Insurance Company in Canada.

THE STEADY SUBSCRIBER

How dear to my heart is the steady subscriber, who pays in advance without skipping a year; who takes out his dollars and offers them gladly and casts round the office a halo of cheer. Who never says "Stop, it, I can not afford it," or "Getting more papers each day than I read"; but always says, "Send it, the ranch outfit like it—in fact, we regard it as an absolute need." How welcome he is when he steps in the sanctum; how he makes our heart throb, how he makes our eyes dance; we outwardly thank him—we inwardly bless him—the steady subscriber who pays in advance.

RELIGION AND HEALTH

In the work of conserving the health the mind must not be left out of account. Much depends on air and food and exercise and sleep, and much also depends on what is going on in the mind. It is possible for the mind by its lawless and mischievous action to counteract all the efforts put forth to maintain the body in health. Dark and sombre moods are hostile to good digestion. Fear in all its forms is an enemy of normal circulation. Worry is a mischief maker of the first rank, and must be exercised, if the body is to be saved. In order to enjoy health we must have not only a sound body, but also a sound mind. It is impossible to have one without the other. Every disorder in the flesh reports itself in the intellectual and emotional life and every disturbance in the life of the soul makes itself felt in the life of the flesh. Many a man who is an invalid physically has found it impossible to escape from his physical infirmities because of the dark condition of his mind. All the dark passions are destructive of health. Remorse sucks the life blood like a vampire. A soul ill at ease deranges the physiological processes. The body is the creature of God, and it does its work successfully only when it is under the domination of a Christian spirit. Joy is a great physician. Peace is the best of medicines. A genial, loving disposition wards off disease. Jubilant moods are to the nerves what a summer sky is to flowers. Fretful tempers leave their mark on the corporeal; doleful moods retard the flowing of the blood. The more hopeful and sunny a person is, the better is his chance for victory over the ills of the flesh.

THE FARMER'S PARTNER.
By One of Them.

Some people call a farmer successful who has made and kept money while others think this only a part of success. A man may accumulate wealth and still not be successful, say the broad minded men and women who feel sure that success goes above and beyond mere money, though it usually includes that, too. To be successful a man must be a good neighbor, a good citizen and a power for righteousness and progress in the community in which he lives. And many of our farmers are living up to this latter definition every day in the year.

The world is quick to applaud success sometimes, but it is a well known fact that often the greatest workers in any field are overlooked. And this is particularly true of the wives of successful farmers. It is very, very rarely that the world thinks of the successful farmer's partner and gives her a word of credit. In town it is different where the wife of the successful merchant or banker or politician can further her husband's plans by a judicious social program, and even advance him by being active in lodge or church circles, but in the country the man gets most of the credit. And, strange to say, the good ladies who deserve half the credit for success in the country rarely claim any of it even in speaking with their husbands. They value their services too lightly because they are so delightfully modest.

The farmer whose wife is not nagging him to move to town ought to fall

upon his knees daily and return thanks for his treasure. Many farmers have succeeded in the face of this handicap, but no one knows what heights they might have reached if they had possessed partners who "pulled even" with the load. To have a home where contentment and peace reign is the greatest asset any man can claim and the greatest factor in success, particularly on the farm. A woman in love with farming and anxious for her husband to succeed can accomplish more in one week than a discontented woman can in a month.

And consider what the ladies have done for country communities. Many a successful man fondly imagines that his interest in school, in grange, in good roads, in church and in all things that uplift is due to his public spirit, when really it is due to his energetic partner. The farmer gets absorbed in money making and wants to grow indifferent to the higher things of life because he is so busy, but his wife will not allow such a thing. Gently and persuasively she gets him to remember the welfare of their children, his duty to society and the church, and presently he comes to see that the "life is more than the meat, and the body than the raiment." He keeps acquainted with his children and his neighbors largely through her efforts and his home be-

comes a center of hospitality and good cheer.

And like the silent forces of nature, the good wife accomplishes everything without bluster or argument. One good woman who was ill a long time awoke to the realization that during her invalid days her husband had become absorbed in money making and was rapidly beginning to think that success meant only the accumulation of property. It was a hard task to reorganize the household but she did it and did it well. To-day that man is serving the school, the church and in political affairs as well as making money, and he is rounding out a full and complete character. If she had been a weak woman she might have said it was useless to try.

So it is about time that the farmers should consider the greatest factor in their success. Why, the country churches would have been closed long ago but for the ladies, and all social activities would have ceased if the busy farmers' wives had given up their efforts in that direction. And if every country improvement were sited to the bottom it is ten to one that some woman first thought of it. In the work for temperance to protect the country homes from contamination the ladies have always taken an active part in the work and have urged their hus-

bands to increased activity in this regard. And they have done it all handicapped by lack of domestic help and strenuous work in season and out of season. There never was a time when there were so many demands on the ladies' time as now, with the auto bringing company at most unexpected times and the dust of country roads making it harder than ever to keep things clean and tidy. All honor to the partners of successful farmers! They deserve every word of praise that comes their way and many more besides. To be a self-made man is the proudest boast of most successful farmers, but there are mighty few self-made, successful men anywhere. Almost always there is some energetic, capable ambitious, home-loving and devoted wife behind the successful man who is his partner and co-worker though the world takes no note of her and this is particularly true of the man who has made a success on the farm.

PARIS CHEERFUL THOUGH FULL OF WIDOWS

Paris in wartime is a very different place from the gay Paris of former days, says Ellen Adair in The Philadelphia Public Ledger. One sees the difference immediately on arrival. When our train reached the Gare du Nord and I motored



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NO need to live in rooms whose dullness crowd you in these stay-in days when beauty such as this can be had so easily.

You'll be surprised how you yourself can make any room more livable, more enjoyable to all, with the lasting charm

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PEDLAR'S PERFECT METAL CEILINGS

from there to the Gare St. Lazaire, it seemed to me that widows, and nothing but widows, crowded the streets! My next impression was of soldiers everywhere, and such poor, smashed-up, mutilated soldiers! At one corner we passed three blind Zouaves, arm in arm and all as cheerful as possible, while a man in uniform conducted them across the street.

I was particularly struck by the cheerfulness of the soldiers and their wives. One never heard a grumble nor a murmur. The French trains are peculiarly built, the third-class carriages being overhead and reached by a small outside iron stairway. Up this little stairway the soldiers swarmed, their packs or "sacs" on their backs, all laughing and humming snatches of popular songs. In the little open-air carriages there they sat, all as happy as possible.

The train service has been, of course, much curtailed, and as the trains are often commandeered altogether for military purposes, one must take one's chance. The military authorities have first right to the trains, and whenever the authorities want them for transport purposes they immediately get them.

Population Decreased

The population of Paris has been tremendously decreased, since every man between the ages of 18 and 45 must go off to fight. The expenses of living have gone up correspondingly, and the shop people are not doing anything like their former trade. Even where orders do come in, they have not the men to execute the orders, and I have spoken with several tradesmen who have been entirely ruined, not through lack of orders, but through lack of men to carry them out. It is practically impossible to hire labor.

The motorbuses have entirely disappeared from the streets of Paris! They are all used for military purposes, and not a single one remains. The car service, too, leaves much to be desired. One has to wait a very long time to get a car anywhere. Taxis abound, although last September, just before the Germans were turned on the Marne, all the taxis were commandeered by the military authorities, and 10,000 troops taken in them to the battlefield. For a whole week Paris was without a single taxi!

The street scenes here are very different from those in London. There are no recruiting notices, for instance, for where there is conscription recruiting notices are unnecessary. Theatres are all closed, with the exception of a few benefit performances for the wounded, and the little street cafes close at 9, while the restaurants close at 10. The change here is very marked, for formerly there was no real time limit, and one could sit till the "wee sma' hours" at these delightful little tables on the pavement and watch the night-life of the gay Parisians in all its flood tide.

Women in Men's Places

The women, of course, have bravely stepped into the places of the men. All the tramcar conductors are women, and very odd do they look in their enormous black alpaca aprons and small black caps of the "Glenarry" variety. They are exceedingly businesslike, all the

same, and hustle the passengers in and out with the greatest possible energy. The French rendering of "Step lively, please," is always on their lips, together with a weird kind of whistle which gives forth a wailing sound, such as a cat might utter in its death agony, and which has a peculiarly disturbing effect on the nerves the first time one hears it! For the sum of three francs and 50 centimes per day, or about 70 cents in American money, these women work tirelessly for 10 hours. The work is hard and poorly paid, but they seem to enjoy it.

I chatted with several of them, and they all remarked that they were happy in being strong enough to fill the places of their men. Most of them were married women with husbands at the front. One young woman on the Madeleine route had lost two husbands in the war! "My first husband was killed last September," she informed me, "and I married again but six weeks ago. Now I learn that he, too, is killed."

The one topic of conversation in Paris is of course "la guerre." From morning till night one hears nothing else.

The ancient cab drivers, with their high hats of white patent leather, their bright blue long-tailed coats and their scarlet waistcoats, present a curious picture. Many of them wear loose smocks, such as artists affect, of pale blue linen, and their flowing beards and curled mustaches give even the middle-aged ones a venerable look.

It seems a mystery that even the young Frenchmen should cultivate long, sweeping beards. Perhaps they imagine that it gives them added dignity. Half the French army seem to be bearded men, and all aim at the cultivation of fierce mustaches.

"Yes, they wish to return to the front," they all declared. "Our wounds are getting better and our comrades need us!" There was not a murmur or a grumble from any of them. It was a lesson in patriotism.

The forest of St. Germain lay steeped in the evening sunlight. Away at our feet stretched 30 miles of the magnificent Seine valley, with its peaceful orchards and its winding river. Far on the horizon rose the dim outlines of the Eiffel Tower and the outbuildings of Paris. The wonderful old forest of Marly stretched for miles up a miles to the right. And the only sound to break the solemn silence was the tinkling of the cowbells as the little "gamins" drove them home through the shadows of the forest to be milked.

In that quiet evening hour it seemed impossible to believe that in a space of less than one and a half hours an automobile could take one to the bloodiest of battlefields. Wars and rumors of wars seemed unthinkable in such a place. For the forest of St. Germain is a veritable sanctuary for solitude and peace. But when I turned once more to my wounded companions and saw them with their faces mutilated beyond all description, so that one shuddered to look at the poor fellows, it was not hard to realize that war was somewhere very near—and, above all, very terrible!



Village Clergyman: "Can I help you at all?"
 Artilleryman: "Yes, Sir, you can."
 Clergyman: "What shall I do, then?"
 Artilleryman: "Well, Sir, if you wouldn't mind going a bit further up the street the horses will understand the language better."

Free Distribution of Trees

BY THE
GOVERNMENT OF CANADA

ANY FARMER living in Manitoba, Saskatchewan or Alberta, can procure, **FREE OF CHARGE**, enough seedlings and cuttings of hardy forest trees to establish a good shelter-belt round his farm buildings and garden.

Thousands of successful plantations have been established as a result of this distribution.

Already over 27,000,000 trees have been given away **FREE**.

Over 4,000,000 will go out this spring.

Make your **FARM** a real **HOME** by planting trees.



Superintendent's Residence, Nursery Station at Indian Head, 1915



Same Place in 1914

ALL APPLICATIONS for trees to plant in 1917 must be received **BEFORE** March 1st, 1916.

A limited number of **EVERGREENS** is available for delivery this coming spring under special conditions.

All applications and enquiries should be addressed to

NORMAN M. ROSS,
 Nursery Station, Indian Head, Saskatchewan

WRITE FOR BULLETINS ON TREE PLANTING

WHAT BRITAIN HAS DONE

La Guerre Sociale (Paris)—What would have become of us, even after the battle of the Marne, if the German fleet had driven us from the seas and had blockaded us; if Germany had been able to revictual herself in America and elsewhere? Britain goes to war. Immediately the German fleet is forced to confine itself to its own territorial waters. Germany is blockaded and cut off from the whole world. She is cut off from countries which supplied her with cotton, metals and munitions of all sorts; from countries where, too, are one million of her reservists, who are unable to rejoin. Our army is reinforced by an army which is being made up, slowly but surely, of all the best fighting material, not only in Britain, but in Canada, South Africa and Australia, and our financial power is being consolidated by its alliance with the greatest financial Power in the world, the Power which, in the twelfth month of war, is capable of raising, without inconvenience to herself, a loan of \$640,000,000.

WOMEN AND THE WAR

London Times—They do not need any urging to help in the war. As in other countries, they are more eager than the men, and if less use has been made of their direct services than in France or Germany, it is not for want of will on their part. They are being called upon more and more to replace and to supplement men's work, and are gladly responding. This process will be greatly extended as military service becomes more general, and there is no doubt that our women will be equal to all the demands made upon them for such help. But it is less obvious that they also serve who only stand and save, and that the exercise of home economy is an essential method of helping in the war.

"UN-AMERICAN"

New York Herald—Who will say that there is not absolute justice and the highest morality in a practice that permits Belgium and France and those who are fighting their battles to purchase munitions where they may? Certainly no American who understands the principles of liberty and freedom for which his country stands and has ever stood. The cry for an embargo upon export of munitions from this country contains not a shred of Americanism. It is not only un-American but anti-American. It is simply and solely of Germans, by Germans, for Germany. And just as it is essentially pro-German and anti-American, so is it inherently and absolutely immoral.

ENGLAND'S GOOD HUMOR

London Daily News and Leader—Our good allies the French, have been astounded by the light-heartedness of the British. Tommy. However heavy the casualties, however wearisome the duty, however imminent the danger, our soldiers have never lost their power to sing and chaff and laugh. As a matter of fact, this power is the quality of the people. The typical working class Briton meets adversity with a smile, and bad luck with an unconquerable determina-

tion to make the best of things. Dickens discovered the humor of England. England at its greatest was "Merrie England." The England tried and proved by the war must be a "Merrie England" once more.

THE KAISER'S CANT

Glasgow Herald—The Kaiser may lay his hand on his breast and dramatically protest "before God and history," as he has done in a manifesto to his people, that his conscience is clear—that he don't will the war—that no lust for conquest drove him to it. His people may believe his audacious assertion that all the unprecedented bloodshed of the past twelve months is due to the aggression of the enemies of the fatherland, who, after a decade of preparation, thought the hour was come when they could crush Germany, who was growing too great for them. But the civilized world knows better.

THE GLORY OF THE FLEET

London Daily Telegraph—The glory of the fleet consists in this: its competency on the one hand, and on the other its impressive silence, a silence that can almost be felt as one walks the streets of our towns and villages and recognizes in the normal aspect of things the influence which the Navy has exerted firmly, decisively, and yet how quietly!

Needless Alarm

An old German farmer entered the office of a wholesale druggist one morning and addressed the proprietor:

"Mister Becker, I have der schmall pox—"

"Merciful heavens, Mr. Jacobs!" exclaimed Becker, as the office force scrambled over each other in their hurry to get out, "don't come any nearer."

"Vot's der madder mit you fellers, anyhow?" quietly applied Jacobs. "I say I haf der schmall pox of butter out in mine wagon, vot Mrs. Becker ordered las' week already!"—National Food Magazine.

The Afterthought.—Lecturing to an audience of women, Prof. Rudolph M. Binder, of New York University, stated that in the lower order of life the female was the first of the species and the male was only an afterthought.

Perhaps—but we have heard that afterthoughts are best.

NOTHING NEW

A reporter was interviewing Thomas A. Edison.

"And you, sir," he said to the inventor "made the first talking machine?"

"No," Mr. Edison replied; "the first one was made long before my time—out of a rib."—Tit-Bits.

YES, WHY

The Village Grocer peevishly: Look here, Aaron! What makes you put the big apples on the top of the bar?"

The Honest Farmer cheerily: What makes you comb that long scalp-lock over your bald spot.



Ask for the New Packet

In future, BLUE RIBBON TEA will reach the consumer in the new air-tight double package.

This is far arid away the most efficient method of packing tea. But only the largest packers can use it—as the process involves extremely costly apparatus.

In place of the old lead packet—easily punctured and liable to rust—a double thickness of absolutely dust-proof, air-tight, oiled parchment and stout cartridge paper is used. The combination makes a perfect preventive of the slightest deterioration.

In a word—a perfect wrapping for a perfect tea—



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



In every nook and corner of the farm, inside and outside of every building, in every field and at every turn of the lane there's a picture that should form a part of your

KODAK RECORD

Such pictures add interest and value to your written record. The making of Kodak pictures is very simple, and is less expensive than you think.

Catalogue free at your dealer's, or by mail.

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

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



"Confound you! You did gimme a jump!"

MASTER MECHANIC
UNION MADE
OVERALLS
Cut Full and Roomy
MADE IN WINNIPEG BY
WESTERN KING MANUFACTURING COMPANY LIMITED

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

Land Bargains

Owing to Forced Sale we offer your choice in Half Section Lots of Sections 15, 17, 19, 21, 23, 25, 27, 31, 33 and 35, Township 44, Range 25 West of 3rd at

\$13.50
PER ACRE

Situate in Western Saskatchewan, West of famous Cut Knife District. Anyone wanting high class wheat land, steam plow proposition, get in touch with us at once

Simpson, Mitchell & Ewing
Box 178
Union Trust Building, WINNIPEG

BUY NOW AND SAVE 6.15



GET READY FOR SPRING
SPECIAL OFFER \$20.85
Regular Store Value \$27.00, \$30.00
BOOK OF INSTRUCTIONS FREE

- 1 Champion 8 in. Fan Lever Forge.
- 1 Champion Post Drill.
- 1 Oval Slide Vise, 34 in. jaws, weight 18 pounds.
- 1 Champion Anvil, weight 50 pounds, with handle.
- 1 Blacksmith Hammer, 1 pair Farriers Hammer.
- 1 Farriers Knife, 1 pair Forging Tongs.
- 1 pair Shoe Tongs, 1 pair Farriers Pincers.
- 1 Hot Cutter Head, 1 Cold Cutter Head.
- 1 each 3/4 in. Round Shank Drills 3/16, 1/4, 3/16, 3/8, 7/16 and 1/2 in.

ALL EXACTLY AS ILLUSTRATED
WE SHIP C. O. D. ON APPROVAL
Freight paid Old Ontario for **\$20.85.**
For delivery in New Ontario and as far West as Winnipeg, add \$1.00 for freight. Customers pay freight from Winnipeg West.
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Good Looking Harness

Stays good looking—and old harness looks like new when you give it regular applications of

EUREKA HARNESS OIL

Prevents cracking. Puts life into the harness. Makes it strong, pliable, last longer. One application will convince you.

Dealers Everywhere
The Imperial Oil Company Limited
BRANCHES IN ALL CITIES

FREE to stockmen and poultrymen our 90-page illustrated booklet on feeding, how to construct a house which will accommodate 100 hens; gives dimensions and measurements of every piece of lumber required. Deals with the common diseases of stock and poultry and the remedies. Tells how to cure roup in four days. Contains full information about Royal Purple Stock and Poultry foods and remedies.
THE W. A. JENKINS MFG. CO., LONDON, CAN.

AN ITALIAN TRIBUTE

Il Secolo Milan.—It is surprising that such misfortunes do not occur more often, considering the innumerable British transports crossing the seas in all directions. This further proves the splendid work of the British Fleet in securing the mastery of the seas, watching all the movements of the enemy, and protecting its own transports and those of its Allies.

OUR IMPERIAL STRUCTURE

London Daily Chronicle.—The Canadian Premier does not doubt that after victory our Imperial structure will grow further, because it is a living thing, and growth is its law. It is the old problem in a new form—to meet the needs of a changing world without throwing away the heritage of our past progress. If on the whole perhaps the British peoples may claim in their history to have solved this problem with an exceptional degree of success, let us hope that the genius of the race may yet be with us to solve it once more in its ever-growing complexities and on its ever-widening arenas.

A WAR TIME REFLECTION

London Daily Mail.—War is as much a conflict of spiritual as of material forces. If the nation is careless and selfish the Army must feel the reaction. But as heroism evokes heroism, as the great example has a compelling power, we may hope that the divine conduct of our soldiers may lift the whole people up to their level of faith and love. Victory is not to be looked for until, in the fires of trial, inefficiency and sloth and apathy have been burned out of our hearts and lives.

Recipes

The following recipes are taken from the Ladies' Home Journal, which states that each costs about ten cents.

Bean Loaf.

—Two cups of lima or soup beans, one cup of bread crumbs, four tablespoons of peanut butter, two tablespoons of grated onion, one tablespoon of dried celery leaves, or poultry flavoring, two teaspoons of salt, one-eighth teaspoonful of pepper, one teaspoonful of bacon drippings, one-half cup of rice stock. Wash and soak the beans over-night; put on in a saucepan, cover with boiling water, and boil until tender (about forty-five minutes). Drain; when cool put through the food chopper; add the bread crumbs which have been covered with the old rice stock, peanut butter, onion, celery, salt and pepper; mix all well together. Form into a loaf and put into a small brick pan which has been brushed with drippings; bake in a moderate oven for thirty minutes.

Escalloped Corn.

—Two cups of corn, fresh grated or canned, two cups of whole-wheat or bran bread crumbs, two tablespoons of butter, one teaspoonful of salt, one-eighth teaspoonful of pepper, one-half cup of milk. Brush a baking dish with butter; put half the bread crumbs in the bottom; add half the corn; sprinkle with salt and pepper; add another layer of bread crumbs, and the rest of the corn and sprinkle the top with bread crumbs, salt and pepper. Put the butter over the top in little pieces, and pour the milk over all; bake in a moderate oven for thirty minutes.

Lemon Pudding.

—Two cups of milk, three-quarter cupful of sugar, two tablespoons of cornstarch, two tablespoons of lemon juice, one teaspoonful of grated lemon rind, a pinch of salt, four tablespoons of cake crumbs or broken crackers. Put the milk on in the top of a double boiler; add the cornstarch, which has been wet with a little cold water, the sugar and salt. Stir constantly until it thickens; set aside to cool, adding the juice and rind of lemon. Put the crumbs in the bottom of a glass bowl, or in sherbet glasses, and pour over the mixture. Serve very cold.

Mock Cherry Roly-Poly.

—One and one-half cups of flour, two teaspoonful of baking powder, one-half teaspoonful of salt, two tablespoonful of shortening, one-quarter cupful of milk, one cupful of cranberries, one-half cupful of seeded raisins, one-half cupful of brown sugar. Sift the flour, baking powder and salt into a bowl; add the shortening, and rub in very lightly; add milk enough to hold together; handle as little as possible.

MAGIC BAKING POWDER

no more than the ordinary kinds. For economy, buy the one pound tins.

E.W. GILLETTY COMPANY LIMITED
WINNIPEG TORONTO QUIT MONTREAL

Steamed Carrot Pudding.

—One-half cupful of chopped suit, one cupful of flour, one-half cupful of currants, one-half cupful of sugar, one cupful of raw grated carrot, two teaspoonfuls of salt, one teaspoonful of butter, one teaspoonful of cinnamon. Put the suet, flour, currants,

sugar and salt into a bowl. Wash, scrape and grate the carrots; add at once; mix all well together. Brush a mold with butter, and put in the mixture; boil for two hours. If you do not have a mold a lard kettle or any small kettle will do. Serve with lemon sauce.

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Beats Electric or Gasoline

10 DAYS FREE

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Put on a floured baking board, and roll out oblong a quarter of an inch thick. Cut the cranberries into halves and spread them over the dough; cut the raisins into small pieces and spread over the cranberries; cover with sugar, and roll the same as a jelly roll. Pinch the edges, put into a baking dish which has been brushed with a little butter, sprinkle a little sugar over the top, place in a moderate oven and bake for forty minutes. Serve with caramel sauce.

To make caramel place one tablespoonful of sugar into a small saucepan. Burn until dry. Remove pan from fire and add one cupful of cold water. Return to the fire and boil until the sugar dissolves.

Lemon Crumb Pudding.—Two cupfuls of dry bread crumbs, two cupfuls of hot milk, three-quarter cupful of sugar, three tablespoonfuls of lemon juice, one teaspoonful of grated lemon rind, one egg, a pinch of salt, one teaspoonful of butter. Put the crumbs in a bowl; pour over the hot milk; add the salt, the egg, well beaten, the grated rind of the lemon, and the lemon juice, and mix well. Brush a baking dish with a little butter; put in the mixture, and bake for forty minutes in a slow oven. Serve plain or with a hot lemon sauce. For the sauce see another card.

Soft Spice Cakes.—One-quarter cupful of shortening, one-half cupful of brown sugar, one-half cupful of molasses, one-half teaspoonful each of ground cinnamon, ginger, allspice and nutmeg, one teaspoonful of baking soda, one-quarter teaspoonful of salt, one-third cupful of hot water, one and one-half cupfuls of flour. Cream the shortening, sugar and molasses together; add the spices, the salt, and the baking soda which has been dissolved in the boiling water. Sift in the flour, mix the ingredients well, and put into well-greased muffin tins or gem pans. Bake in a moderate oven for twenty minutes.

Orange Puffs.—One cupful of flour, two teaspoonfuls of baking powder, one-half teaspoonful of salt, one-quarter cupful of sugar, one-half cupful of milk, one egg, one teaspoonful of butter, one orange, one teaspoonful of grated orange rind. Sift the flour, baking powder, salt and sugar into a bowl; add the milk, butter, orange rind, and the well-beaten egg. Brush four warm custard cups with butter, and put a spoonful in each. Bake in a hot oven for fifteen minutes. Serve hot with orange sauce.

Lemon Sauce.—One teaspoonful of lemon juice, a little grated lemon rind, a pinch of salt, four tablespoonfuls of sugar, two teaspoonfuls of cornstarch, one teaspoonful of caramel. Put one cupful of water on to boil; add the cornstarch which has been wet with a little cold water; boil for two minutes; add the sugar, salt, lemon juice and rind, and the caramel. Serve over the pudding.

Rice Croûte.—One cupful of rice (half pound), one cupful of strained tomatoes, one cupful of finely cut onions, two teaspoonfuls of salt, one-eighth teaspoonful of pepper, one tablespoonful of drippings, one tablespoonful of parsley. Wash the rice, and add slowly to four quarts of water which is boiling hard; boil for twenty-five minutes; drain and blanch.

Put the drippings into a small pan; add the onions; cook slowly until tender and yellow; add the tomatoes, salt and pepper; mix well with the rice, and put on a platter and sprinkle with parsley. Two tablespoonfuls of finely cut green pepper may be added.

To blanch rice: Drain the rice in a colander, pour hot water through the rice, shaking it so the rice grains will fall apart. Place on top of the range or in an open oven to dry.

Orange Sauce.—One tablespoonful of cornstarch, two tablespoonfuls of sugar, four tablespoonfuls of orange juice, one cupful of water, a pinch of salt. Boil the water; add the cornstarch, which has been wet with a little cold water; boil for five minutes; add the sugar, salt and orange juice; color with caramel.

Pat's Logic.—A blacksmith and a gardener argued as to which was the first trade or means of living in the world.

The gardener was sure it was gardening, and he quoted from Genesis the statement that Adam was put on the earth to till it.

Pat, the blacksmith, was unconvinced. "Well, thin," he queried, "who made the spade for Adam?"

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| 20-40 Gas Traction Engine | Price...\$1,450 |
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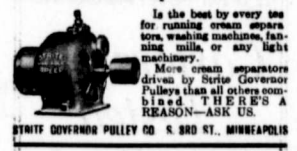
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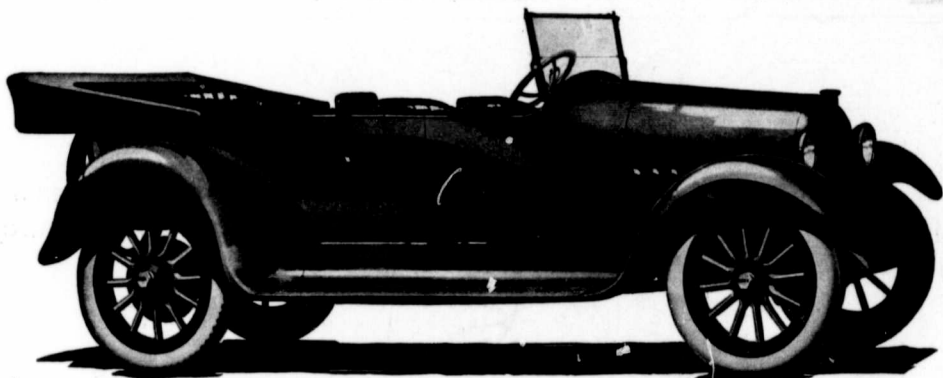
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