

The CANADIAN THRESHERMAN AND FARMER

WINNIPEG CANADA
DECEMBER
1916



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THIS
TRADE
MARK



A Faithful Old Friend Stifel's Indigo Cloth

Standard for over 75 years

From sun-up till sun-down, the year round,

STIFEL'S INDIGO OVERALLS, SHIRTS and JUMPERS take all the rubs your work, natural wear and wash tub give them—and you know these rubs are **REAL** rubs.

But rough work on the farm can't phase Stifel's Indigo, nor can perspiration and exposure to blazing sun or soaking rain.

Stifel's is the original and genuine dyed fast, stay fast indigo cloth. Strong and sturdy in weave with a beautiful blue color that lasts as long as the cloth.

It's the CLOTH in the Garment that Gives the Wear

When you buy overalls, shirts or jumpers, be sure they are made of faithful Stifel's Indigo, the recognized standard garment cloth for over 75 years. You can tell by this mark  stamped on the back of the cloth inside the garment. It's your guarantee of the genuine Stifel's, the cloth that is flattered by imitation but has yet to be equaled.

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Buy a MOGUL or TITAN for Real Every-Day Economy--And Do It NOW!

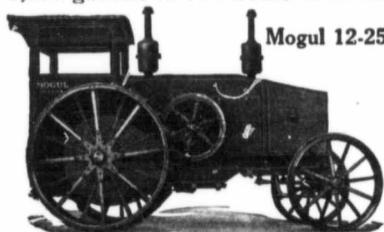
NO matter what you may hear or read to the contrary, you can buy a real Kerosene Tractor—one that saves you half the cost of a gallon of gasoline for every gallon of kerosene it uses. A real kerosene tractor is one that does as much work on kerosene as the best tractor does on gasoline, using not over 8 to 10 per cent more fuel to do it.

The True Kerosene Economy Tractors are:

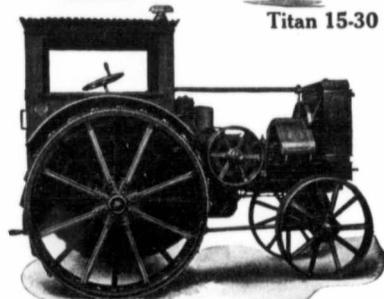
Mogul 8-16 Titan 10-20 Mogul 12-25 Titan 15-30 Titan 30-60

To realize the importance of this feature to you, you must know the comparative local costs of gasoline and kerosene, and the amount of fuel your tractor will probably burn during the season.

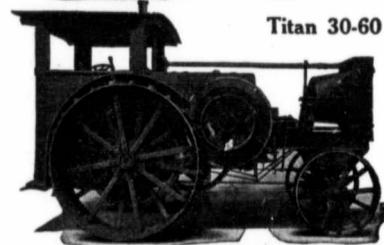
About the smallest quantity of fuel that any tractor will use in a working season is 1,000 gallons in 500 hours of work. On this low basis the smallest I H C tractor will save you from \$80 to \$100 a year, according to the local difference in the prices of kerosene and gasoline.



Mogul 12-25

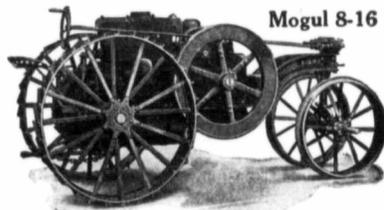


Titan 15-30

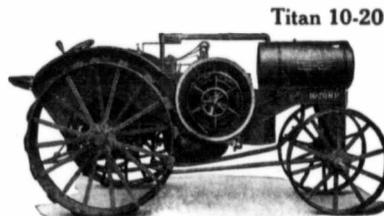


Titan 30-60

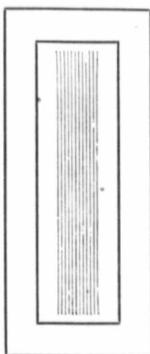
Do not let anyone tell you there is no such thing as a real kerosene tractor. A man who says that does not know what he is talking about. Take the first opportunity to see a Mogul or Titan at work. Then you will know which tractor of them all it will pay you best to buy. Or, a postcard to the nearest address below will bring you complete information.



Mogul 8-16



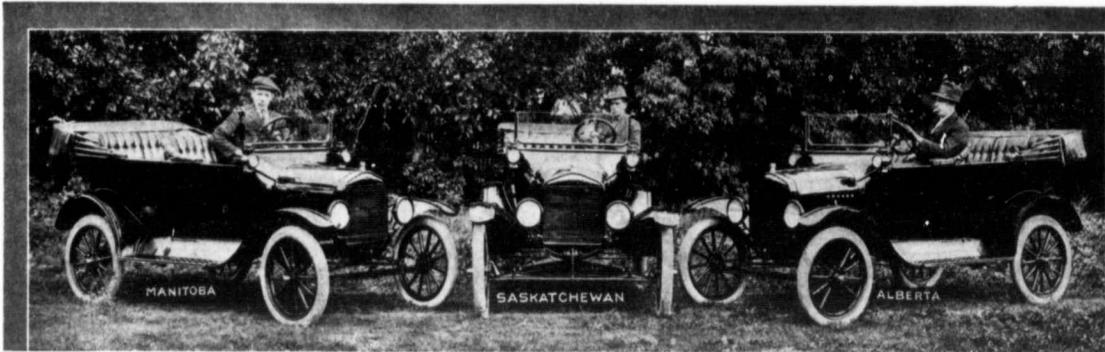
Titan 10-20



International Harvester Company of Canada, Ltd.

BRANCH HOUSES

WEST: Brandon, Man.; Calgary, Alta.; Edmonton, Alta.; Estevan, Sask.; Lethbridge, Alta.; N. Battleford, Sask.; Regina, Sask.; Saskatoon, Sask.; Winnipeg, Man.; Yorkton, Sask.
 EAST: Hamilton, Ont.; London, Ont.; Montreal, Que.; Ottawa, Ont.; Quebec, Que.; St. John, N.B.



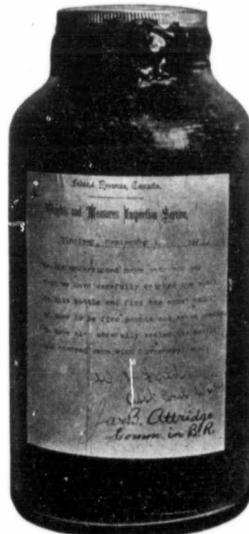
These Three Beautiful Ford Touring Cars GO TO THE WINNERS OF OUR BIG AUTOMOBILE CONTEST

The subscription price of *The Canadian Thresherman and Farmer* is the one royal road to securing one of these cars FREE. If you are not the fortunate one, you have still more than the dollar's worth in a year's course of the best farm literature in Western Canada, so you cannot lose. Do not overlook your renewal. Send it in along with your estimates to-day. Enter the contest now.

HOW TO WIN AN AUTOMOBILE

We will present a handsome Ford Touring Car (1917 model) to the first reader of *The Canadian Thresherman and Farmer*, in each of the three prairie provinces, Manitoba, Saskatchewan and Alberta, who estimates nearest to the number of whole kernels in 5 pounds and 7 ounces of No. 1 Northern wheat, between the 15th of September 1916, and 1st of April, 1917. The wheat is a fair clean sample of No. 1 Northern, grown in Saskatchewan, and weighs 64 pounds to the bushel. It was obtained from the Dominion Grain Inspector at Winnipeg. The wheat and bottle were taken to the Dominion Weights and Measures office, and exactly 5 pounds and 7 ounces were weighed out and poured into same. The bottle was then immediately sealed up in the presence of two witnesses, photographed, and deposited with the Union Trust Company of Winnipeg. It will remain in their vaults until the contest closes, 1st April, 1917, when it will be taken out and counted by a board of 3 judges, none of whom are in any way connected with *The Canadian Thresherman and Farmer*. The contest is open to every bona fide farmer in Manitoba, Saskatchewan and Alberta, except residents of Winnipeg.

Frank B. Snyder, Elkhorn, Man., won the last competition. On that occasion there were 3½ pounds of wheat in the bottle, which counted 47,037 kernels. Mr. Snyder's estimate was 47,038 kernels. This information ought to help you considerably in the present competition.



This bottle contains 5 pounds and 7 ounces of No. 1 Northern Wheat, Marquis.

The wheat is a fair clean sample grown in Saskatchewan, and weighs 64 pounds to the bushel.

The photograph shows the actual bottle after it had been weighed and sealed by the Dominion Weights and Measures Inspector.

Can you estimate how many whole grains of wheat there are in the bottle?

HOW TO SEND YOUR ESTIMATES

Everyone who sends us a subscription direct to this office between the dates mentioned, for *The Canadian Thresherman and Farmer*, either new or renewal, is entitled to estimates as explained below. These estimates may be credited in whatever way you desire, and you may send in as many estimates as you wish in accordance with the schedule below. Remember every additional estimate increases your chance to win a car. Estimate now and increase your chance of winning, because it is the first one in each province who estimates nearest to the number of whole kernels that wins an automobile. Estimates will be accepted as follows:

- 1 year's subscription at \$1.00 gives you 3 estimates
- 2 years' subscription at \$1.50 gives you 7 estimates
- 3 years' subscription at \$2.00 gives you 11 estimates
- 4 years' subscription at \$2.50 gives you 15 estimates
- 5 years' subscription at \$3.00 gives you 19 estimates
- 6 years' subscription at \$3.50 gives you 23 estimates
- 7 years' subscription at \$4.00 gives you 27 estimates
- 8 years' subscription at \$4.50 gives you 31 estimates
- 9 years' subscription at \$5.00 gives you 35 estimates
- 10 years' subscription at \$5.50 gives you 40 estimates

Why not increase your chance of winning a car, by sending in more estimates? All you have to do is to donate—say five subscriptions to five of your friends, using the additional estimates obtained in this manner yourself. You may not wish to donate five, however—well, donate three, two or one if you wish, but send them all in to us in one envelope.

JUST STOP A MINUTE!

and figure what it means to you to be one of the winners. You get a beautiful 1917 Model Ford Touring Car—right from the factory, ready to use the very next week after the contest closes. Are you going to pass up such a golden opportunity as this? Are you going to let someone who is no more capable of winning a car actually take at least \$530.00 right from under your eyes? Don't figure that you can wait a little later, because it is the persons who first estimate the correct or nearest correct number of kernels in the bottle that carry off the grand prizes. Big opportunities are few; this is yours. Can you pass it up?

COUPON

E. H. HEATH CO. LIMITED, Winnipeg.

Please find enclosed \$.....for.....years' subscription for *The Canadian Thresherman and Farmer*, to be sent to Name..... Address..... Prov.....

My estimates as to the number of whole kernels in 5 lbs. 7 ozs. of No. 1 Northern, Wheat are.....

If more space is required for names and estimates, use a blank sheet and attach securely to this coupon

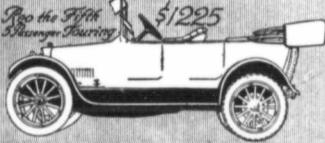


-but it wouldn't be a Reo!

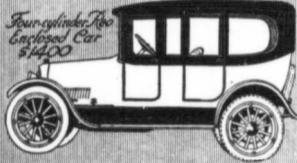
Four-cylinder Reo Roadster 3 Passenger \$1225



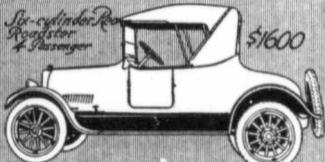
Reo the Fifth Passenger Touring \$1225



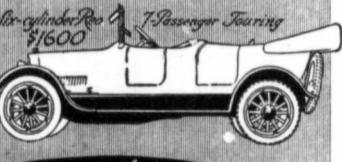
Four-cylinder Reo Enclosed Car \$1400



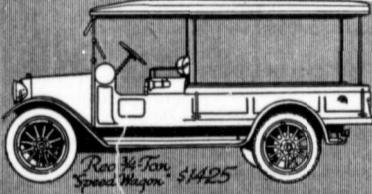
Six-cylinder Reo Roadster 4 Passenger \$1600



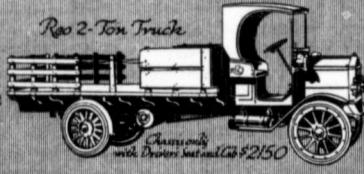
Six-cylinder Reo 7-Passenger Touring \$1600



Reo Six Sedan 7 Passenger \$2350



Reo 3 1/2 Ton Speed Wagon \$1425



Reo 2-Ton Truck

As shown with Driver Seat and Cab \$2150

All Prices are duty paid for Lansing, Michigan

Are you one of those who, just because you can't get a Reo on the minute, are thinking of accepting as a substitute a car that is your "second choice"?

Or are you one of those who think perhaps you can get as good value in some automobile of lesser reputation?

If you are in doubt on any point, let us just say this:

Take a Reo, and have it made in any other factory—and it wouldn't be a Reo.

It isn't design alone—there are no radical features of design in Reo cars.

Nor is it factory equipment—all automobile factories have about the same machines. Reo, being a leader, is always a few months ahead of most—but machine tools are practically standard.

Nor could one say that Reo mechanics are all more skilled—others can hire good mechanics too.

That's why we say that if you took Reo design and Reo specifications and had the car made up in some other plant, still it would not be a Reo.

It's the Reo spirit—that indefinable but still tangible thing that pervades the whole Reo organization from General Manager down to the Last Man in the Shops, that gives to this product the quality that has come to be known as Reo.

We like to call it good intent—for after all that is the determining factor.

It is the desire of the Reo Folk to make the best automobiles it is possible to make.

Not the most, but the best. Not quantity, but quality, is the Reo goal.

And every Reo man—from the Chief Engineer to the Final Inspector—is imbued with that spirit, is actuated by that desire to make good, dependable automobiles. Better than others.

Visit the Reo plant. You will be welcome—the doors are always open. Reo Folk, proud of their work, are glad to show you through. Note the atmosphere of the place. Watch the workers—listen to the remarks you'll hear.

No one asks—"How many did we make yesterday?" as you hear in so many factories nowadays.

For that isn't the thought uppermost in the minds of Reo workmen.

It's how many parts were discarded, turned back by the inspectors—because of some error so slight it would "pass" in most plants.

There's no secret—no necromancy—about Reo quality or how it gets into the product.

It's the result of that fervent desire of the Reo Folk to make Reo cars excel—and the eternal vigilance that results from that desire—that is responsible for Reo quality, Reo stability, Reo low cost of upkeep, and finally, Reo preference—Reo demand.

Is it any wonder that Reo cars are known as "The Gold Standard of Values"?

Reo Motor Car Company
Lansing, Michigan, U. S. A.

176-B



The Dignity of the Farm

BY REV. FREDERICK B. DUVAL, D.D.

Pastor Emeritus, Knox Church, Winnipeg

Gen. 2:15. "And the Lord God took the man and put him into the garden of Eden to dress it and to keep it."

FREED from the poetic imagery that clothes all very ancient records, we have here the chartered beginning of human industry. Man is appointed his place in the economy of creation. It is an intelligent adjustment in the co-ordination of powers to execute the high purpose of the Creator. We must link up the physical, intellectual and moral in one system, all tending in their different grades of office to serve one great beneficent end.

God is "God of the granite and the rose. He gives life to the sparrow and the bee. The mighty tide of being flows through countless channels. Lord from thee; it springs to life in grass and flower, through every grade of being runs; while from Creation's lordly towers His glory beams in stars and suns."

Man will never get the best inspiration for a noble life, until he recognizes his noble office in the progressive creation. The chemic and organic forces require intelligent beings placed over them to control and guide them to serve the higher purposes of life. Two chemical elements put together may generate a tremendous force; but they need an intelligent master to guide that blind force to the service rather than the destruction of life.

In the organic world you find a similar blind energy. A thousand sprouts may spring from a single stump. They require an intelligent husbandman to thin and prune, to produce a strong tree and good fruit.

This blind energy is found in sunlight and electricity; it is stored up in myriad forms; it springs up in vegetable and animal life, waiting for some wise lieutenant of the Creator to use it for beneficent purposes.

2. A second great truth is that higher things are made to build themselves out of things lower; the plant out of the earth; the animal out of the plant; the intellectual out of the animal; the moral out of the intellectual. The Creator furnishes material free. Rocks contain castles, trees houses, and metallic mines our finest enginery. Mineral, vegetable and animal wait for God's lieutenant to use them for higher intellectual and moral ends, that

We most gratefully acknowledge, and so will every reader, the following Christmas message from our kind old friend. It is the substance of Dr. DuVal's Baccalaureate Sermon preached to the Faculty and Students of Manitoba Agricultural College on March 26th, 1916. It is charged with that "power to move men" that rings in the soul's voice of this venerable servant of God whenever and wherever it is uplifted—in sanctuary, senate or to the solitary passenger by the wayside. We have the most striking testimony to the deep impression these thoughts inspired when they rang out in the College auditorium. As we contemplate what we personally owe, and what this whole Dominion owes to Dr. DuVal, the desire is strong in our hearts that to the immortality of his expressed thoughts might be added an undying power to his mortal flesh. We need such men and never so much as in these days.—Ed.

the Master may say "Well done, good and faithful servant."

In harmony with this necessity, you find that the Creator has placed an intelligent being over these irresponsible energies, to guide them to a beneficent purpose. It is said that God "put the man in the garden to dress it and to keep it." The original Hebrew word, as in 2:5, means to "till," or as we say "work it." Be not

ling beasts. God is said to be a "sun" and a "shield," to give both vigor and protection, that he may insure both "grace and glory" to the work of his hands.

Man, as God's lieutenant, is to assume a similar office towards the lower agencies over which he is placed, so that the whole creation may "work together for good." The sin of selfishness, by assuming the mastery of an-

virtuous duty done. No mere calisthenics that affected society can employ can bring the flow of health that is brought by honest work, cheered with the feeling that it is done under the eye of God for a noble purpose. The moral sense is a powerful factor in the production of strength.

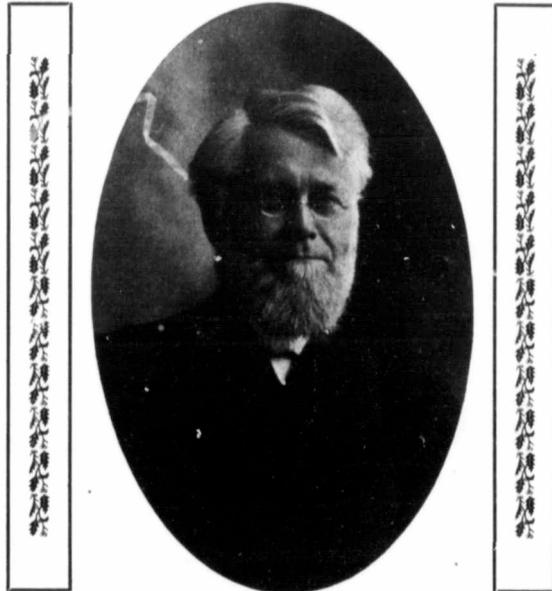
2. Intellectually considered, we find no exercise can give such relief and uplift to the tired mind as work among growing plants. Here we change from the monotony of figures and the humdrum trend of human meanness, to problems that are eloquent with divine wisdom, power and benevolence. And in comparison with these, the ordinary plays and conventional games are as the husk to the living seed of life. It gives the mind that exhilaration that thrills the explorer. For there is no end to the discoveries that an intelligent mind may make in agriculture and horticulture; no end to the marvellous improvements man may develop out of the little potencies about him.

From the common wild rose how many varieties of luxuriant beauty and sweetness! So with all manner of herbs, grains and fruits good for the use of man. The pristine earth, by the application of our intellect and labor, is made far more fruitful and beautiful as the habitation of man; while man, through the exercise of his faculties to effect this, develops his own excellence.

I do not wonder that the Roman philosopher, Tacitus, and the Roman poet, Virgil, gave such praise to the influence of rural life. No wonder that the ancient Chinese placed the agriculturist next to the great scholars in the social rank. The farmer too often retreats from claiming his birthright, and settles down to the slavery of merely making something to eat or laying up dollars to press like clods on his coffin, when he might sometimes make himself a prince among men.

Away forever with the idea that "any fool can be farmer." He is God's chartered agent in forwarding the creation to nobler ends. He must be chemist, naturalist, economist and philosopher all in one. Let a man catch the course of God's intent in nature without, as seen in forest, field and flock; then let him catch an idea of God's intent within his own soul, and he will have a form of philosophy far in advance of much of the medieval nonsense

Continued on page 24



REV. FREDERICK B. DUVAL, D.D.

carried away with the idea that there was no real work before sin entered. Work is a necessary part of the constitution of Creation—an exercise needful to the development of excellence. "My father worketh hitherto and I work," said the Saviour. Everything that lives works; and when it ceases to work it begins to decay.

The second cardinal word, "Keep," means to guard. We do not only need to cultivate, but to protect; it may be from blight, weeds, thorns, insects and pro-

other's service, has often put the blight of slavery on work; but this has no place in the economy of God.

Work is necessary to our physical, intellectual and moral well-being.

1. Medical science daily teaches us that often human beings go into a miserable neuroathenic condition, and rot out their better life, from a sheer lack of proper work to make the blood flow normally, and to fortify the mind with the consciousness of



Vol. XXI

WINNIPEG, CANADA DECEMBER, 1916

No. 12

ONCE again this old world would open its heart to the Spirit of Christmas. From pole to pole, wherever men gather who have heard the story of the Prince of Peace, there comes into most lives at this point of time a something that the mere man cannot account for in terms of the market-place and workshop.

One of the great catch-pennies of commerce is the old, moss-covered slogan of "service." By every artifice of pen and printer's ink the potentiality of "service" has been rammed home until the minds of common men have ceased to realize that there is anything whatever behind the lifeless characters that form the word on the printed page. And yet the soul that is embodied in that one word is the only live thing, the only real thing, the one thing that will "get there" anywhere in human affairs.

In the atmosphere of Christmas, this soul of service seems to re-incarnate itself everywhere in the hearts of men without distinction of race or speech. Moreover, it steps out from the ordinary course of nature in our mid-winter and to do a sort of countermarch, as it were, "all on its own." With other creatures of the woods and waysides, the light-winged gems of the summer sunbeams are all tucked away in their little warm cots—"hibernating," as the scientific chaps say—but enjoying the undisturbed repose of a clean conscience until it is time for them to get up and go to work again.

But service among the sons of men knows of no "winter quarters." Rather, it would seem,

The Soul Of Christmas In Human Service

does the bracing air around the twenty-fifth of December in these latitudes add a pinch of ginger to their surcharged activities. Yes, the magic word of Christmas warms up "the cockles of the heart" (whatever these are) and thrills the souls of men and women with a new vitality, a strange soul-hunger that will not be satisfied with anything that

to be the real thing in service. Probably every man and woman has experienced it—to their cost, very often, but subsequently to the very saving of their souls.

An old Scotch proverb has it that "bocht (purchased) wit lasts longest, though it's dear fees ye pay for a term at the school o' experience." Who has not found out when he attempted

less power to charm, to subdue, to comfort and to strengthen whatever it touches.

What does the incident of Bethlehem mean to us here in Western Canada at this point of our life's experience? The ingathering of one of the richest harvests the country has known has been greatly retarded by a scarcity of labor, the fact being that several hundreds of thousands of our most physically fit sons are fighting or being trained to fight in Europe.

Before 1914 we imagined that there were certain considerable restraints on hostilities, hallowed by custom and sanctioned by international agreements. What we have gone through and are still enduring need not be enlarged upon because it touches with all its horrid realism the life of every individual who will read these pages.

What we are going to evolve out of the matter does, however, concern us above all else, and as it invariably happens in the history of these frightful upheavals, our lesson is being delivered to us in the lives of our splendid men — our erstwhile companions of the farm home or the city office, store or workshop. Yes, it is the soul of the ranker that speaks to us in this hour. Its "still small voice" is heard and, thank God, is being heeded above all the deafening tornado of battle and the jangling of military junkers.

The last paragraph of the greatest book of the times begins with the words: "Our sons who have shown us God" It is a grand note to end on. Once again it brings home to the world the fact that the seats of the mighty hold no prescriptive



HEROES WHO WILL RISK ALL TO SAVE A SINGLE LIFE

These brave fellows are the members of the crew of the Eastbourne lifeboat. They were photographed just after accomplishing a record performance in saving twenty-one of the passengers and crew of the P. & O. steamer "Oceana," which was wrecked in the English Channel. Within fifteen minutes of receiving the call, they were afloat, and the rescue was accomplished under what seemed impossible circumstances.

begins and ends with their own little personalities. So they seek until they find an outlet for pent-up feelings; and, when found, what was once a trickling streamlet of intermittent pleasure swells into a resistless flood of satisfaction that cannot be explained to anyone who has not sailed out on the top of its tide.

Now there's an eternity of interval between service and "services" that fairly describes the difference between the real thing and what is commonly imagined

to win the favor of others by "services," that it proved but a miserable, intellectual trick? "They eat your services like apples and leave you out," says a friend of wide experimental knowledge; "but love them and they feel you and delight in you all the time."

So that, as we approach the dawn of that greatest of all anniversaries, we simply cannot help ourselves if we lose ourselves in the closer contemplation of that Amazing Personality, that match-

claim to the highest wisdom. Into the ordinary haunts of life the Prince of Peace has poured the very quintessence of that wondrous love which has proved whenever it has been put to the test that even frail humanity may take to itself a force which the anger of man will never crush.

The great book to which we have referred is largely a piece of imaginative writing, but here is its complete story condensed and incarnated in the experience of a real American boy—Harry Butters, of San Francisco, who gave his life for a cause that he felt down to the roots of his soul was the cause of every segment of civilization. He joined the forces of the Allies and in his twenty-fourth year was gazetted a lieutenant of the British Army. On the night of 31st August, of this year, he was killed by the same shell that killed his battery commander. Last January he wrote a letter addressed "to my dearest folks" and, following the personal messages of endearment, he continues:

"I am now no longer untried. Two weeks' action in a great battle is to my credit, and if my faith in the wisdom of my course or my enthusiasm for the cause had been due to fail it would have done so during that time. But it has only become stronger: I find myself a soldier among millions of others in the great Allied armies fighting for all I believe right and civilized and humane against a power which is evil and which threatens the existence of all the right we prize and the freedom we enjoy.

"It may seem to you that for me this is all quite uncalculated, that it can only mean either the supreme sacrifice for nothing, or at best some of the best years of my life wasted; but I tell you that not only am I willing to give my life to this enterprise (for that is comparatively easy except when I think of you), but that I firmly believe—if I live through it to spend a useful lifetime with you—that never will I have an opportunity to gain so much honorable advancement for my own soul or to do so much for the cause of the world's progress, as I have here daily defending the liberty that mankind has so far gained against the attack of an enemy who would deprive us of it and set the world back some centuries if he could have his way.

"I think less of myself than I did, less of the heights of personal success I aspired to climb, and more of the service that each of us must render in payment for the right to live and by virtue of which only we can progress.

"Yes, my dearest folks, we are indeed doing the world's work

over here, and I am in it to the finish."

That is, in effect, the message which every brave son of Canada is sending across the broad Atlantic in these fatal hours of the world's destiny. Like all noble souls, they "never realized" what home and their loved ones meant; what an inheritance was theirs in their share of the country they are fighting for until the parting came and they had settled down to "play the game" in the long, sad separation it would involve.

Few of them had measured up to the full stature of what really

"So be it. Good-bye, my lad. Be happy, and then go to the wars and do your part with the best. Everybody's up against it to-day, from God on His throne to the smallest girl-child sewing buttons on a soldier's coat. We're recasting the whole world in the crucible of this war, and if it's the Almighty's master-work to see that the new-born earth shall roll sweeter and wiser through His heaven afterwards, it's ours, to the least of us, to help stoke the furnace fires and purge the dross from the melting pot."



ONE OF NATURE'S NOBLEMEN

This brave man has a wholesome abhorrence of publicity, but if we must not give his name, it is a privilege to be able to reproduce his honest, fearless countenance. He is one of the most celebrated of all our famous British coxswains, and with his gallant crew has saved scores of lives, winning the undying gratitude of many of these and their friends who are now accounted the mortal enemies of these brave heroes of the lifeboat.

was theirs, but every awakened memory of those dear lads recalls us to many great things we had forgotten or had lightly valued. Slightly paraphrasing another book of the period, we might say with no less truth than it is said of England: "Love of Canada was running thin before this war. I am hopeful," says the hero of this book, "that the war will make a new and a stronger love. There's millions of us in this country have got Canada for nothing! Think of that!"

"Love for your nation! I'm

Stoking our Furnace

There is only one "fuel" that will purge the dross from the melting-pot and that is the torch of Love. Through whatever obstacles we believe we are hacking our way to success, if love is not in command of the handle then we are only clearing a pathway to our ruin. "Some trust in chariots and some in horses," but we will stake all we hold in substance and reputation that this war will be won and the world's lasting peace secured by one "force" only—love.

"May Your Heart be full of the Spirit of Christmas"

with you there. With all our faults and failings, it's something to be a Canadian to-day. And it will be something bigger still a year hence. Too big a thing indeed to take for nothing—surely a thing to strengthen a man's mind with reverence and quicken his heart with pride."

Unless we knew our skirts were clean in this quarrel and that we had "no malice or hatred or other uncharitableness" in our heart towards a single misguided creature who happened to be fighting against us, this writer would have gone over to the enemy long ago. Our position has

been defined in words which have now become classic:

"No one desires to prolong for a single unnecessary day the tragic spectacle of bloodshed and destruction, but we owe it to those who have given their lives for us in the flower of their youth, in the hope and promise of the future, that their supreme sacrifice shall not be in vain. Our ends are well known; they have been frequently and precisely stated. They are not selfish ends, they are not vindictive ends; but they require that there should be adequate reparation for the past and adequate security for the future."

"On their achievement we honestly believe depends the best hopes of humanity. For them we have given—we are giving what we can least afford to give—without stint, without regret, but only as the price by which the world will purchase and surely hold in the years to come protection for the weak, the supremacy of right over force, free development under equal conditions, and each in accordance with its own genius, of all the States, great or small, which build up the family of civilized mankind."

Thank God that there is no such out-crop of this war as a "Hymn of Hate" to be found anywhere in contemporary Anglo-Saxon literature. There is much to off-set it, not only in our war-classics but in the living acts of our men on the field, in the councils of those at home who are compelled to "abide by the stuff" and in the expressions of the great plain people in their daily life.

We had a striking proof the other evening of the fact that "hearts are trumps" still in this big-souled Canada. Readers of this magazine who have seen the remarkable series of pictures of the "Battle of the Somme," which have recently been shown in our Western cities, will never forget them. This writer will certainly never be able to blot out of his memory those sad processions of "enemy" wounded and nerve-shattered prisoners. They could beget one thought only in the mind of every man or woman possessing the heart of a camel, and that was a feeling of utter sadness—an overpowering desire to reach these poor broken men with a heart and hand to offer the last service that love could hold out to them in their misery.

When (no doubt in pure thoughtlessness) an ignorant but well-upholstered female occupant of a box ventured a slight applause as those sons of their own Fatherland appeared on the screen there came a reproving "Hush-sh-sh!" from all over the theatre, and a big-hearted son of

toil, with a voice that betrayed the intensity of his feelings, exclaimed: "Have a heart, madam!" We thanked that man not only for giving vent to our own emotions but because the slight outburst of that manly soul showed how completely "hearts were trumps" all the time when you are dealing with the common folks of the earth.

What an extraordinary bundle of contradictions a man is! Find him in one mood and there is nothing in destructive devilry that can compare with him. To-day we don't need to take any steps to illustrate his power to work mischief. Left to himself he quickly develops a genius for disintegration, becomes a perfect demon. With an unquenchable thirst for the blood of his brother, once he starts in there seems no combination of blind force that is strong enough to hold his hand. In this frame of mind there are no depths to which he is incapable of descending.

But let something happen that makes a strong bid to his better nature and what do we find? Why, that he will go to even greater "lengths," were that possible, to satisfy the big longing of his soul to serve his fellows. Here we find him really and truly what he always has been alleged to be—the image of God. In this noble mood, seized as it were by a divine fervor, there is nothing in sacrifice that will prove too great to hold him back in his eagerness to save and to serve.

On these pages we have sought to illustrate this Christmas message with a few "samples" of a type of men and of service we know something about. Pictures exist which are real works of art, the product of exceptional genius, giving the most lurid portrayal of human countenance when the soul of which it is the mirror is in the grip of the homicidal instinct. Some of these appalling heroics of the battlefield give one their own "uncanny" insight into the soul of a man; but, having seen it, let us say that no art of any kind will ever make a picture of the soul's light as it pours in all its glory from the faces of those brave British lifeboat men when the S.O.S. strikes but the faintest heart-string.

Again and again we have seen those magnificent men start on their errand of mercy—risking their all to save, it may be, a single human life, and that "life," for years, nothing more than a drunken, swearing sailor. "Theirs not to reason why." There is no hesitancy, and at such a moment the oldest man takes on the spring and alacrity of youth.

One of the very greatest things

in human expression the writer ever witnessed was the living face of one of these men—a coast guardsman named George Oatley, who earned ten times over the "Albert Medal" for his heroic work in rescuing the entire crew of a Norwegian barque.

There was the vessel—some 150 yards from the shore—flung up on a ledge of rock, and lying broadside on to the pounding seas that were fast ripping her to pieces. Twice had the rocket been fired but the line on each occasion had fallen short or gone wide of its mark. There was only one line and one chance left,

a human countenance, we will not renege for we saw it then and are thankful and satisfied.

Here is a charmingly told tale of a little hero—whose home is a Scottish manse—a perfect story for the oldest "boy."

"The young man who answered with equal readiness to the name of 'Nickum' or 'Annoyance' declared the other day that life was insupportable for a person of his years—he is seven) unless he owned a knife—not a silly one with two blades, but a Boy Scout one with 'things in it,' including a corkscrew, and chained to the outside of his person.



TAMED BY THE POWER OF LOVE

Much of the best in human service is by no means confined to the claims of humanity, but gathers into its heart the dumb, down-trodden creatures of the farm and city streets. They can't express themselves in so far as to be understood by the average "human," but here is a man with a heart and brain so big and wise that he has never failed to subdue the most vicious disposition that ever masqueraded in horse flesh. Kindness and patience alone did it.

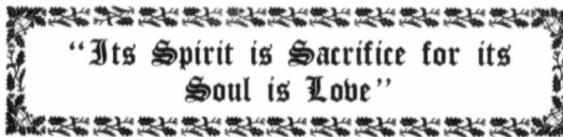
and this noble fellow (who was in command) was afraid to risk sending that last remaining line—with the rocket. What did he do?

Stripping himself of every impediment of clothing, Oatley fastened the life-line around his waist, addressed a few words of direction to his mates who stood by, and turned to his task—not in the pose of a stage hero, but as an ordinary British seaman. But could we dare to "describe" the look in that man's face as he finally took his bearings and just

"A desperate weapon! It costs a shilling, and is considered by the young blades of the Nickum's circle cheap at the money. Still it takes a little boy a long time to collect a shilling, even if the Saturday penny is augmented by a stray ha'penny occasionally. The Nickum had reached the giddy altitude of sixpence-ha'penny when Uncle Jim came to call on us in his motor car.

The Nickum's Hero

"Uncle Jim is the Nickum's hero; ever since he came limping back from Mons, to limp through



before plunging into that foaming caldron? In the glare of that strong "port-fire" flare light with its setting of no less brave but anxious faces close behind, sirs, that was a sight for the gods! If we are never again privileged to see the love-glory of the Son of Man shingling through

all the rest of his years. The child worships his soldier uncle, and hung about his chair, waiting to get in his oar in the talk. Somehow we talked about knives. I had to go out of the room a minute and when I came back I heard Jim say rather cryptically, 'Let not your right hand know

what your left hand doeth.'

Jim was on his way to give some wounded soldiers an outing, and he proposed that the Nickum should accompany him.

"The little chap doesn't take up much room," he said, 'and he'll be a great help to the soldiers.'

"The amount of room he takes up," I said severely, 'is in inverse ratio to his size; however . . .'

"I'll show you them in Smith's window when we pass," I heard my son whisper mysteriously; 'they have chains on them.'

"And Jim said 'Right-o,' I'm thankful they don't run loose.'

The Nickum Returns

"It was late in the evening when the Nickum returned—very hungry but very happy, and full of stories which the soldiers had been telling him. He referred with modest pride to the assistance he had rendered the wounded, and grew offended because I look sceptical.

"I helped them to climb in and to come out, and I held one soldier's crutch, and I said, 'Lean on my shoulder. I'm terribly strong.' An' there was one man there, an' he had been in the trenches an' Wipers an' a German sniper snipe him right here in the arm, an' it's his right arm, an' I said to him, 'I'll light your pipe for you, 'cos I can quite easy—I often do it for daddy—' an' he said, 'Never mind.'

"He stopped in sudden confusion.

"I think I'll go to bed now," he announced in a flat little voice. It was the very first time in his life Nickum had proposed such a thing.

"Aren't you well? I asked in alarm.

"He swallowed a large mouthful of bread and butter and replied in an invalidish voice, 'Not very.'

"Well, how did you get on with lighting the pipes? I asked.

"There wasn't no pipes,' he aid, with firmness but no grammar.

"I thought—"

"Uncle Jim said, 'Let not your right hand know'—"

"But you don't call your mother your 'right hand,' do you? Tell me, son."

"Well, then, I told you about the snipped man? And none of the soldiers were smoking, and so I said to Uncle Jim, 'Let me down at Hunter's, please,' an' he said, 'Smith's, you mean. It's tobacco they sell at Hunter's, isn't it?' But I said, 'Hunter's, please,' an' so he 'llowed me, an' I bought—cigarettes!'

"What—with all your money! He nodded. 'All 'cept the ha'penny.'

"What did you buy with it? 'Matches,' he said, simply."

THE CANADIAN THRESHERMAN AND FARMER
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J. D. DUTHIE
EDITOR
J. L. MIDDLETON
CIRCULATION MANAGER

Dec.

THE PEACEMAKER

1916

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...

CONCEIVE if you can what it would feel like if peace were to "break out" on Christmas Eve of 1916. Could the world in this hour of high tension stand the deluge of joy such a glorious issue would mean to its stricken millions?

And yet it is possible—every good thing is possible and may be secured—on terms. But the terms of this universal peace are beyond the means of any man or combination of men on earth who know not that Power



which alone can guarantee a "peace that passeth understanding." That peace compact will need no ratification by solemnly attested document, or a single shot-gun to back it up. For nearly twenty centuries its terms have been proclaimed all over the world. They were brought to the world on its first Christmas morning by the Babe of Bethlehem, and when the men of our day are ready for peace, the way will be opened, and once again "a little child shall lead them."

As on one memorable occasion a little company of men came to loggerheads over the point as to "who among them should be greatest," so in our day a coterie of crowned fools and tin-plated swash-bucklers are at each others throats over the same bone of contention. In the first case, the Teacher of the ages "took a little child and set him in the midst of them" and a few words from the Teacher sealed the lips of every disputant.

Now if the Kingdom of God was not open to any of those Gallilean fishermen and their contemporaries who would not "receive it as a little child," still less hope is there for the

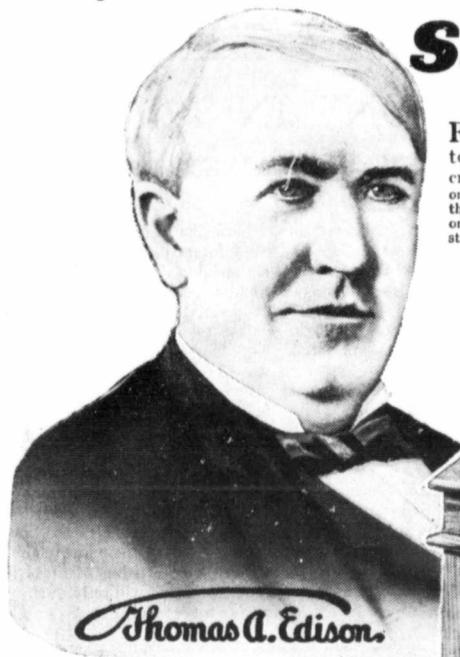
cavalier spirits of our day to have it on their terms. The Kingdom of God is "Peace on Earth, Good-will toward Men," or it is nothing at all, and that peace carries with it a power against which nothing can avail. No mere combination of flesh and blood can be a source of wisdom and power, as some of "the best laid schemes o' mice and men" painfully attest. Once on a time the "power" of Spain darkened the whole sky of Western Europe with its vampire wings. When its "Invincible Armada" sailed up the English Channel, men, whose only hope lay in guns and gun-

powder, saw no escape for that "contemptible little navy" of fishing boats land-locked on the Devon Coast. But a puff of God's wind sent the great battle-ships to their doom. Even so might one night's blizzard on that B a l k a n Peninsula change the whole face of Europe before day-break.

"Why should we be puppets in the hands of crowned fools?" asks one of our great writers. "We" are men—not puppets—made in the image of God and it is "we who must stop those wars and massacres of boys." Those massacres would never have started had we really possessed the vital principle of that religion of which we talk so glibly. "Until a man has found God and been found of God, he begins at no beginning and works to no end. God is the only King, and this blood-stained rubbish of the ancient world, these puny kings and tawdry emperors, these wily politicians and artful lawyers, these men who claim and grab and trick and compel, these war-makers and oppressors, will presently shrivel and pass—like paper thrust into a flame."

But we are full of hope. We are not of those who "see the evil in the world but do not see God at war with it, beating it down, burning it up, making an end of it and bringing in slowly yet surely an everlasting righteousness." Cheer up, wayfaring friend, and let thy prayer mingle with Whittier's:—"Drop Thy still deus of quietness, Till all our strivings cease; Take from our souls the strain and stress And let our ordered lives confess The beauty of Thy peace."

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A Happy Home

Happiness is life—and real happiness is found only in a real home. And by a real home I do not mean a house with a yard or farm around it. Oh, no! A real home is the place where the happy and united family gather together for mutual enjoyment and recreation. And the Edison makes this possible, for it stands supreme as the greatest home entertainer. It will mean more than entertainment and merriment, more than an hour of amusement, yes, it will mean genuine pleasure of the lasting sort—helpful entertainment and culture of the most beneficial kind. It will mean the family united—a new home.

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If, after free trial, you decide to keep Mr. Edison's superb new instrument, send us only \$1. Pay the balance on easiest kind of monthly payments. Think of it—a \$1 payment, and a few dollars a month to get this wonderful new style outfit—Mr. Edison's great phonograph with the Diamond Stylus reproducer, all the musical results of the highest price outfits—the same Diamond Amberol Records—yes, the greatest value for \$1 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. Send coupon.



Entertain Your Friends

Get the New Edison in your home on free trial. Entertain your family and friends with the latest up-to-date song hits of the big cities. Laugh until your sides ache at the funniest of funny minstrel shows. Hear the grand old church hymns. Hear the crashing brass bands, the waltzes, the tenors, the solos, the duets and quartets. You will sit a-we-stricken at the wonderful grand operas as sung by the world's greatest singers. You will be moved by the tender, sweet harmony of quartets singing those old melodies that you have heard all your life. Take your choice of any kind of entertainment. All on free trial. Then, after the trial, send the outfit back at our expense if you choose. Or keep it on our great rock-bottom offer. Send the coupon today.

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ALBERTA "LICKS CREATION" IN 1916

THERE must be something far more than ordinary ginger in the soil and climate that can raise such "crops" as the cities of Edmonton, Calgary, Lethbridge and Medicine Hat.

Ten years ago we visited them for the first time. Even then they were big, strapping fellows, giving splendid promise of still greater things. An insurance man would have taken any lease on their lives, leaving "the insured" to fix his own premium. To-day he might look back with satisfaction on the judgment he then displayed and feel disposed to continue the policy at a reduced figure.

And it has all been done on

From the crowded streets and stores, one can swallow their astounding bank clearings without a murmur. There are no dead-beats and loafers around. There isn't a stinking bar-room in the province. Every man (who is not in his auto) walks erect with his hat-brim broad enough to shade his eyes from the glorious sunshine that floods the wide thoroughfares and city parks.

Where did the money come from? On any August or September morning follow one of the main avenues or the least important back lane leading out of the city proper, and a very brief "constitutional" will land you right into a forest of field crops, headed

To say nothing of big corrals of range-bred horses, and the "gets" of imported championships in Percherons, Clydes and a fair sprinkling of Shires and saddle horses, these all bring home on the instant, even to the uninitiated something that needs no "explaining" of the presence of money and what wonderful things a little of it well spent is doing for the cultured homes of this province.

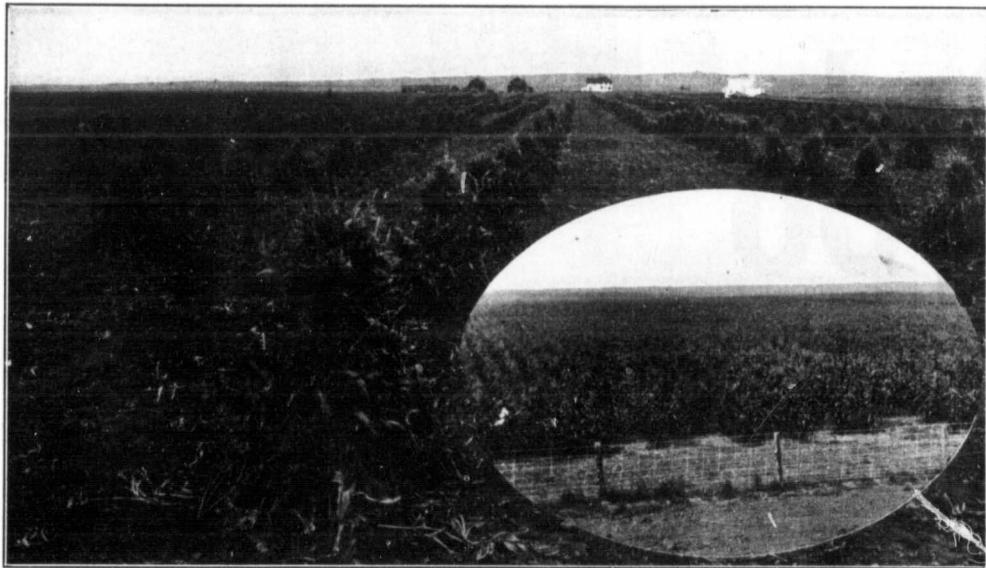
The soil did it; has been doing it steadily for generations and will (under decent treatment) continue to give these results while man is living on the top of the earth. But as one cannot gather grapes of thorns nor figs

Now that auctioneer required no pointers in salesmanship from anyone, but do you think he could find buyers for these few indifferent specimens? No; but as soon as the real stuff was led into the ring, the scene shifted and there was never another dull moment.

One good sport was being chafed for his temerity in paying what he did for most of his purchases. "Aw," said he, "what's a few dollars on a beast if you are getting something worth buying."

The World's Record.

These are great days for "predictions." But the most elaborate press advertising of these by "eminent men" will only mean so many more leakages from the



Fodder Corn in 1915—Medicine Hat, Alberta, Demonstration Farm

soil, and sunshine, for if these had not been there in character and quantity such as are scarcely found anywhere else on earth, there would have been nothing of those teeming populations, for every unit of their constantly increasing numbers depends upon the soil and the soil cultivator.

Yes, we all of these Western cities hang by the farmer, and (metaphorically, of course) will be "hanged" by the farmer on the day we neglect to trim our business to the call of the farm. When we fail to tune our pipes to the music of the plow-boy, we'd better move away back to Bangor, or Brazil—where the nuts come from.

with grain that is unmatched for milling value by anything in cereal product the world over.

Or you may pull up against a fine piece of fencing and in one ordinary pasture field count some fifty or a hundred head of pure-bred dairy cattle, beef cattle, or "dual purpose" cattle that pay their way and make a bit besides with their milk product, and then bequeath their prime carcasses to the Christmas meat market.

Bacon hogs and sheep may be found elsewhere in greater numbers on the same area, but in breeding points and market qualities these Alberta natives play second fiddle to nothing in Arkansas or out of it.

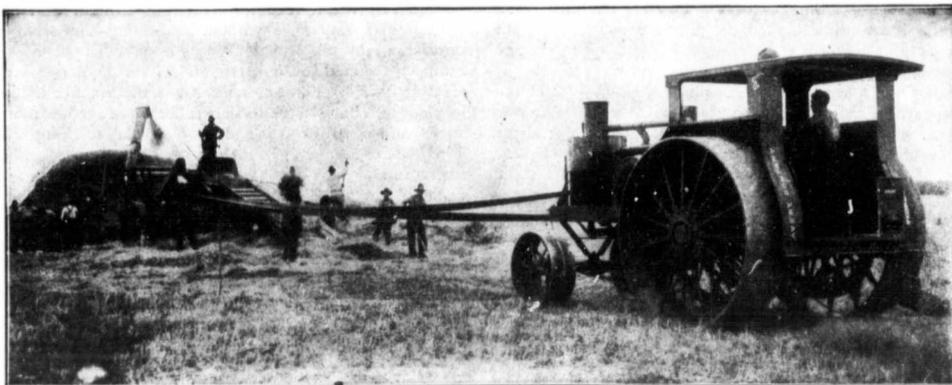
of thistles, neither can any soil miner play fast and loose with the fertility of Alberta's loam, nor can any scrub-cattle drover bring his runts into this province and expect them to bring the price of high breeding.

This is what took place in course of a three-day's show and sale of milk-cattle, sheep and swine which the writer followed with intense interest in Calgary last October. There were really fine exhibits in all classes, in fact the bulk of the stock was of a very high order. But there were a few mournful looking individuals "for which the owner has no further use," and these were the first to come under the hammer.

same old time-patched gas bags unless the farmer on his farm realizes his expectations through intelligent and scientific work. One farmer who understands his business and attends to it is worth to Canada a score of mere platform chaps and magazine writers with their "predictions."

Alberta is certainly raising her fair contribution of those scientific farmers who are also business men. Where is the record anywhere in any one year of the past that can match the yield per acre of Alberta's 1915 crop? These figures are now common property and are removed from all dispute. In many cases that high water

Continued on page 37



Own a Modern Tractor Threshing Outfit

A LOT of men are now running Avery Tractor Threshing Outfits. You ought to hear what they say about them. We have published some of their letters in a special circular entitled "What Owners Say." You can get a copy by writing for it.

The Finest Power Plant on Wheels

That's the way one man who was in our office a while ago described the motor on his Avery Tractor. And it certainly is all he said. It is a delight to watch it run. A constant stream of tremendous power with so little vibration a nail will stand on its head on the frame.

Think of getting all these things combined in one tractor—an opposed heavy duty perfectly balanced special tractor motor; renewable inner cylinder walls; a crankshaft one-half the diameter of the cylinder; sliding frame; two-speed gear; double drive to both rear wheels; all straight spur gears. And think of the things you don't have to bother with when you get an Avery Tractor—no counterweights on the crankshaft; no fan; no water pump; no outside lubricator; no fuel pump; no belts; no sprocket chains. All these things which you get and which you don't get are the reasons why an Avery Tractor is such a success as a Combination Belt and Traction Power Machine.

The Strongest Guaranteed Thresher Built

We back up Avery "Yellow Fellow" Threshers with definite guarantees. We guarantee an Avery Thresher to save 99-52/100 per cent or MORE of the grain. We guarantee Avery cylinder teeth for life against breakage. We give these and other special guarantees which you will find in an Avery order blank in addition to the regular guarantee against defects.

You'll find in an Avery catalog the most complete set of illustrations of every part of a thresher that can be found anywhere. We are proud of every part of an Avery Thresher, and we want you to have a chance to see every part—inside as well as outside. Get a copy and see the Avery heavy cylinder and adjustable concaves; Jumbo Tool Steel Cylinder Teeth with tempered wearing corners; the I.X.L. Grain Saving Separating Device; Double Cone Pulley Belt Guide; Compressed Paper Cylinder Pulley and all the other parts which made one man call his Avery "Yellow Fellow"—"The Job Taker and Money Maker."

An Outfit You'll Be Proud Of

An Avery Tractor Threshing Outfit will make you money and give you a lot of satisfaction. There's a size Avery Outfit to fit any size run—8-16 Tractor and 19x30 Thresher, 12-25 Tractor and 22x36 Thresher, 18-36 Tractor and 28x46 Thresher, 25-50 Tractor and 32x54 Thresher and 40-80 Tractor and 36x60, 42x64 or 42x70 Thresher. Get ALL the facts about them. Write now and get your name in for one of the first new 1917 catalogs that comes off the press. Address—

EVERY COMPANY Canadian Avery Co. Ltd.
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EVERY

SEAMANSHIP FOR THE FARM

Being a few helpful hints on the Handling of Rope

THE farmer seldom has occasion to erect a jury mast, send down a topsail yard, or splice a wire backstay; but it is quite likely that he may be called upon to execute similar tasks, such as erect a derrick, rig a tackle for unloading a heavy weight, or repair the cable to a stump puller or a litter carrier. All these require familiarity with the rigging of ropes. Then, too, he has frequent need for a few useful knots, bends and hitches. Nothing is more simple than the proper hitch in the proper place, and nothing is quite so exasperating and complex as the improper knot—the "granny's" knot as it is known in nautical parlance, which either slips or jams, or both, and ceases to be effective. The sailor's knots—most of them are classified as bends and hitches—never slip and cannot jam; hence they are dependable, easy to make and easy to remove. A few of the important ones, those called into use most frequently, are illustrated in the accompanying sketches, and with a little practice the "greenest landlubber" may readily acquire the knack of tying them.



Fig. 1. Overhand



Fig. 2. Figure of Eight



Fig. 3. Square Knot

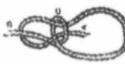


Fig. 4. Bowline



Fig. 5. Running Bowline



Fig. 6. Half Hitch



Fig. 7. Two Half Hitches



Fig. 8. Round Turn

There are four varieties of rope in common use in this country—that made from the fibres of the hemp plant, called hemp rope; manila rope, made from a species of the wild banana; wire rope, consisting of numerous strands of fine wires over a hemp core; and cotton rope, which is the poorest because it lacks strength and durability. Cotton rope retains moisture and therefore rots quickly and the fibres and strands have not the qualities of manila or hemp, so necessary in splicing. Hemp is the strongest fibre rope, since it possesses the essential qualities of flexibility and tenacity to a remarkable degree. That made from Russian or Italian hemp is considered the best cordage; it is also the most expensive. Manila rope is better adapted to certain purposes than hemp, being more pliable, buoyant, causing less friction, and not so easily affected by moisture.

In ship chandlery the size of a rope is denoted by its circumference in inches and its length in fathoms—a fathom being six feet. The landsman is accustomed to think of the diameter of a rope for its size and to specify the length in feet. Thus a half-inch diameter rope is the same as one-and-a-half-inch rope aboard ship, and a 600-foot line the same as a 100-fathom line. In this article the landsman's interpretation—the diameter of the rope—will be used in the following discussion.

How Rope is Made

In the manufacture of rope the general rule is to spin the yarn from right to left, which forms right-handed rope yarns. A combination of these yarns is twisted together left-handed, forming a strand, and three such strands twisted together right-handed make a right-handed or plain-laid rope. Experiments have clearly demonstrated that four-stranded rope is not so strong as three-stranded rope of the same size, hence it is seldom manufactured except over a heart, or what amounts to a fifth strand.

Right-handed ropes are coiled down "with the sun," or in the direction pursued by the hands of a watch; left-handed ropes are coiled against the sun. In removing new cordage from the coil, the end should be passed through the coil and coiled down against its lay—if a right-handed rope coil against the sun—to free the turns and kinks.

It is well to remember that all rope contracts considerably when it becomes wet;

consequently if an absolutely taut rope is secured at both ends and exposed to a rainstorm without slackening somewhat to allow for contraction, in all probability the rope will either break, become seriously strained, or pull out one of its purchases—the objects to which it is tied. For this reason it is the practice among riggers at the close of a day's work to slacken all ropes such as derrick guys and braces, and neatly to coil and stow away everything else that is not in immediate use. Rope should never be stowed away, however, until it is thoroughly dry, for it will deteriorate very quickly if allowed to mildew.

A simple rule for ascertaining the breaking strength of a rope is to square half the circumference and allow the answer to represent tons. Thus, a two-inch diameter rope is virtually six inches in circumference; the square of one-half of six, or three, is nine; hence nine tons is the breaking strength of a two-inch rope. No cordage should be subjected to a strain greater than one-third of its total strength, so three tons is the safe load for a two-inch diameter rope.

Rope vs. Chain

A practical rule for determining the relative strength of chain and rope is to consider the ratio or proportion of chain to rope as ten to one—using the diameter of the chain as against the circumference of the rope. Thus a half-inch chain is equal to a rope ten halves, or about one and one-half inches in diameter.

Diagrams are very useful in explaining the operations and final appearances of knots or hitches, but the only logical way to acquire practical procedure is to experiment with a piece of rope having but one free end, and in some cases using only the bight of a rope with no free ends. The reason is obvious: In actual practice there is seldom but one free end, since the other end is attached to the load or to the purchase, or it is at the extreme end of a long coil or tackle and therefore unavailable. Proficiency is attained when one can tie a knot without forethought, subconsciously, in the same way one hitches up a team.

Overhand Knot, Fig. 1—This knot is familiar to everyone and is really incomplete and of little value unless tied round a cleat or hook or converted into a square knot or reef knot. When used by itself with considerable tension it jams tightly together and is difficult to untie. Pass the end of the rope, A, over the standing part, B, and through the bight or loop thus formed, C.

Figure-of-Eight Knot, Fig. 2—As the name implies, it describes the figure 8 and may be used by itself instead of the overhand knot, since by reason of the extra bight it will not jam so tightly. Take the end of the rope, A, round the standing part, B, under its own part, C, and through the bight, D.

Square Knot, Fig. 3—Make an overhand knot with the ends of two ropes, A and B; then make a second overhand knot and draw it taut against the first; be sure that the end, C, comes out against its own part, A, and that the end, D, comes out next its own part, B. Otherwise it will be a granny's knot, which is difficult to cast off. The square knot in one form or another is frequently used, especially for fastening the ends of two ropes. If the ropes are of unequal sizes and likely to slip, half hitch C round A and D round B.

Bowline, Fig. 4—This knot falls into common use when there is required a noose that will not draw tight—for example, in tying a



Fig. 17. Strap



Fig. 18. Sheepshank



Fig. 19. Beginning Wall Knot



Fig. 20. Wall Knot



Fig. 21. Beginning Crown Knot



Fig. 22. Wall and Crown



Fig. 9. Half Hitch on Spig



Fig. 10. Clew Hitch



Fig. 11. Timber Hitch



Fig. 12. Back-stall Hitch



Fig. 13. Bit Hitch



Fig. 14. Cat's Paw



Fig. 15. Single Head



Fig. 16. Fisherman's Bend

Continued on page 50

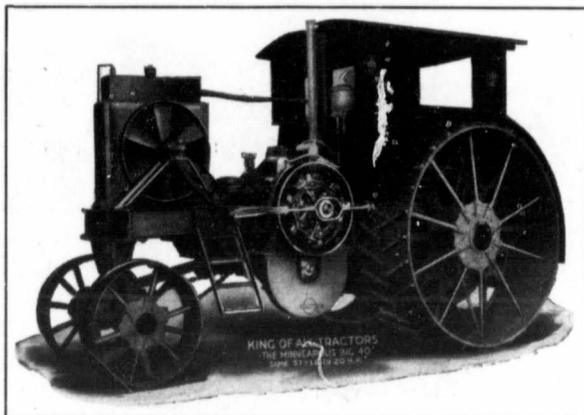
Minneapolis Tractors Have Demonstrated

So thoroughly their superiority in *Design, Construction, Reliability, and Durability* that we have been unable to supply the heavy demand. The careful buyer, wanting the best, investigates from every point of view, gets the facts and is convinced that the *Minneapolis Tractor* is the one to buy for economical and satisfactory service of all kinds.

As careful and particular buyers increase in numbers so increases the demand for *Minneapolis Tractors*.

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Steam Engines, Separators, Engine Plows and Corn Shellers

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THOUGHTS IN KEEPING WITH THE TIMES
WE EXTEND

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CHRISTMAS, A HAPPY AND PROSPEROUS
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HOPKINS, MINN., U.S.A.

CANADIAN BRANCHES:
REGINA — WINNIPEG

NEW MEN FROM BATTERED HULKS



Sgt. Major ANGUS

W. J. WARTERS

KIND-HEARTED Canada never spent her substance on any appeal that will so completely justify the best she can give in substance or heart service than in providing as she is doing for her battle-scarred sons—her big and daily increasing family of "returned soldiers."

The flower of gratitude was never an exotic in the Land of the Maple. Elsewhere and in other days history does record a shameful discrepancy between the treatment accorded the soldier just before he had done his bit—and afterwards. To-day, while we deplore the shortcomings of our forbears and remember these only in chastened humiliation, we are resolved that they shall not be repeated in our lives.

We think only of the man and pledge our whole capability for service to the brave comrade who left his plow in mid-furrow to give his life, if need be, for us in response to that call that blazed its blood-red pathway all round the world on the night of the 4th of August, 1914.

If any "anxious reader" of this magazine would know that there is a leavening force at work sufficient to inoculate the whole "lump" of society, let that friend see what has been provided and is being done at Deer Lodge, Winnipeg.

Briefly, these are the facts to date: For the purposes of a convalescent hospital, the famous old hostelry at Silver Heights was generously lent for an indefinite period (limited only by the needs of the case) by Roderick J. Mackenzie (of the Canadian Northern Railway). Furnished and equipped by the generosity of many big-hearted citizens, it

was formally opened by H.R.H. the Duke of Connaught on 29th June last.

Soldier and man that he is, the Duke perfectly incarnated the spirit of the thing when in his address he hit off in one felicitous phrase the type of man the institution was intended to serve, and just what that man expected from his countrymen.

He is not begging for alms nor holding out his hand in any way. He is essentially "a man o' independent mind," as the Duke said "a self-reliant, useful, capable and resourceful citizen." He is of the salt of the earth—the very best type of man the empire has bred, or he wouldn't have done what he did. But if having dropped his spade to serve the State, and in doing so he has been temporarily knocked out of business, all the return he now asks is the means to help himself.

And no one can doubt that he will get it! This much and all else that a grateful country can do for him he will receive, depend upon it, if there is no more leavening of common decency in the country than is represented by the men and women who are looking after this home.

Conditional only on his good conduct, the man who has been deprived or disabled in any way in this war is going to have every opportunity to regain all that he has sacrificed—to find a way or make one to the best he is capable of reaching. Further, where it is possible to distinguish between one man and another, the distinction will always be made in favor of the returned soldier. That is a cardinal principle in the mind of every associate in this great work.

Could our readers look into the faces of these 40 odd splendid men now in residence at Deer Lodge, it could only arouse one inexpressible feeling—one that all the service in the world could never satisfy.

There are no "broken men" or "social deadbeats" here. Maimed, it may be in an odd limb or still slightly unstrung in the nervous-tissues, but the spirits and the pluck of these fine game chickens are as taut and full of fight as they ever were. One clear-eyed young Scot has been so badly mended he will continue through life "a wee bit boo-legged," but, bless you, that doesn't disconcert the brave chap in the least! If he is a little "aff the

straucht" on his right pedal, there's no twist in his up-standing soul—and the right girl when she comes along will not fail to spot this. She'll either fail to notice the acquired curve or will think only of how it will get round corners with greater facility than they were ever negotiated before.

That, in effect, fairly represents the frame of mind of these self-respecting lads. They look out on the future with brave and manly hearts and a confidence that never wince. God grant that not one of them will ever have reason to regret the confidence they reposed in the people of Canada at the time they did.

The following rooms and wards have been furnished complete at the date of writing: **Two** officers' rooms by the Methodist and Presbyterian Churches respectively. **One** sergeant-major's room by the Winnipeg Grain Exchange; **seven** 1-bed, **ten** 2-bed, and **two** 3-bed wards by various friendly societies, churches, chapters of the I.O.D.E., banks and business houses and battalions of the citizen army.

In further detail, these would indicate in the most gratifying way the widely-distributed practical interest which is being taken in the work. A tastefully engraved brass plate has been placed on the door of each ward, stating by whose generosity it was furnished. They are all dedicated to the undying memory of those brave souls who, "upholding the best traditions of their country, gallantly laid down their lives in the great war in the cause of honor, justice and liberty.

Colonel Rowley, of Winnipeg.

Continued on page 30



Miss MARCELLA P. RICHARDSON
Matron of the Soldiers Convalescent Hospital



PROVINCE OF ALBERTA

ALBERTA is the bright spot on the crop map of Canada this year—and, in fact, one of the few bright spots on the Continent.

With little more than half a crop elsewhere in Canada and the United States, Alberta has safely harvested a crop of more than normal size, from such returns as have been received we estimate the average yield at 28 bushels for wheat, 45 bushels for oats and barley at 30 bushels per acre.

Considering present prices for grain and live stock Alberta seems in a fair way to surpass last years' total agricultural production in point of value, and provide a greater net return per capita for the farmer than any other State or Province to date.

Travellers through Alberta's wheat belt have had revealed to them scenes of agricultural productiveness unapproached in any other part of the world.

Alberta farms selected with even moderate discretion have raised men to independence and affluence with records of wonderful development unsurpassed amongst the phenomenal industrial success of which Canada well may boast.

Many almost incredible yields have been reported by reliable authorities, wheat exceeding 70 bushels and oats 145 bushels per acre.

Alberta has the proud honor of producing the wheat king of the world. Mr. Charles S. Noble, of Nobleford, Alberta, has broken the world's record for 1000 acres, threshing 54.23 bushels per acre of No. 1 wheat.

Numerous records show that the cost of farms have been more than repaid by this year's wheat crop. In one instance land purchased for \$3,200 produced wheat which was sold for a little over \$10,000.

Alberta still has thousands of free homesteads, many of which are within close proximity to railway facilities awaiting settlers.

For full particulars apply to

HON. DUNCAN MARSHALL,

Minister of Agriculture,

EDMONTON, ALBERTA

CHARLES S. HOTCHKISS,

Chief Publicity Commissioner,

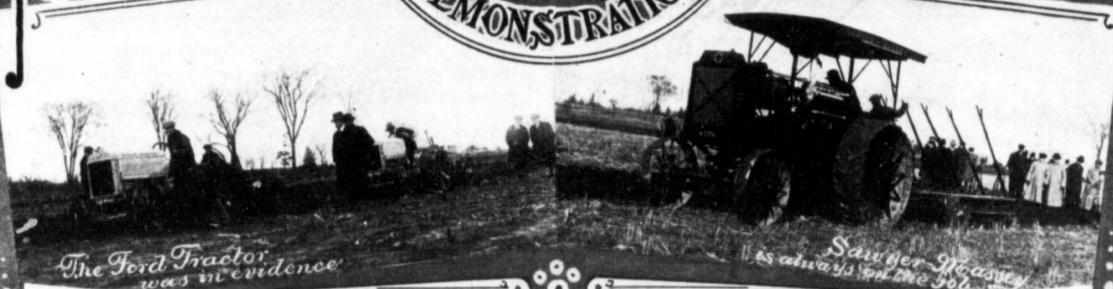
EDMONTON, ALBERTA



SCENES FROM THE PLOWING HELD AT WHITBY ONT.

Nov-12
1916

DEMONSTRATION



The Ford Tractor was in evidence.

Sauer tractor is always the job.



The Auto is found in every plowing demonstration.

The I.C.C. doing a nice tillage job.



Mr. R. Fleming on whose farm the job was held.



A corner in demonstration field.

The crowd along the head land.



The Bull that doesn't use the yoke.

Good shape pulling 5 bottoms.

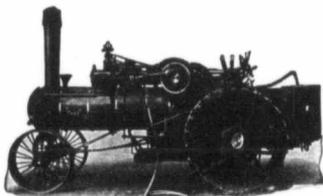
Sawyer



Massey

Have Studied the Needs of
Thresherman and Farmer

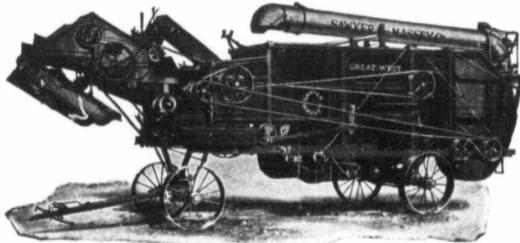
Their engineers and designers have mastered the character and operation of actual field conditions, and their machinery has been built to meet the requirements of the territory in which it is sold. They have never built "DOWN TO A PRICE" but UP TO A STANDARD, realizing that THE BEST in threshing and plowing machinery is none too good to stand up to the work required.



STEAM TRACTORS

(High Pressure Boilers)

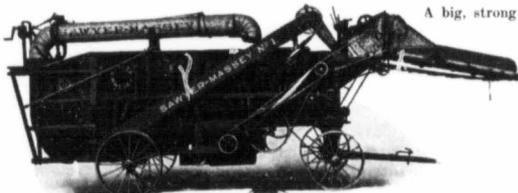
C3—22 h.p. Draw Bar
 C5—25 h.p. Draw Bar



GREAT WEST

32-inch cylinder by 56-inch body. 36-inch cylinder by 60-inch body.
 40-inch cylinder by 64-inch body.

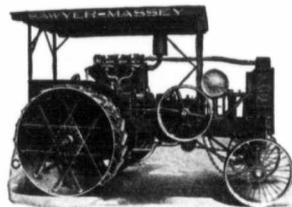
A big, strong thresher; just the machine for heavy work and long runs.
 Fast, powerful, and economical of power.



SAWYER-MASSEY

Two sizes—20-inch cylinder by 36-inch body, and 28-inch cylinder by 44-inch body.

This separator has only recently been put on the market, but it has been fully tested and proven in actual work. It is full of Sawyer-Massey Quality in every detail.



4-CYLINDER GAS TRACTOR

17-54 h.p., 16-32 h.p., and 10-20 h.p.

THE SAWYER-MASSEY LINE is to-day complete in every particular. It includes a wide range of sizes in both tractors and separators. We can satisfy the largest thresherman as well as the smallest farmer with machinery that has years of reputation behind its reliability and durability. **STUDY YOUR REQUIREMENTS, THEN INVESTIGATE THE**

SAWYER-MASSEY LINE

Write for illustrated catalogue, with full details. Catalogues of S-M Steam and Gas Tractors sent on request.

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SAWYER-MASSEY

:-: The Farm Tractor :-:

Has It a Place On The Farm



PULLING UP TREES



PULLING UP STONES

WESTERN Canada is the home of the farm tractor. Her illimitable prairies destined by nature as grain raising areas lay se-
 locked for centuries awaiting the plow. The ox and the horse did their best. All honor and respect is due their efforts, but it remained for the tractor to turn the prairies at a speed that was in keeping with twentieth century progress.

Towns and villages sprang up in this Western country as if built by magic. These same towns and villages had to be supported by the surrounding country and few who have not studied the situation carefully realize what a tremendous help the tractor was to the development of the Canadian West during the period 1905 to 1912.

It is true that the heavy buying of power farming machinery by the farmers was a tremendous financial burden upon the country, but it is also true that millions of acres were turned from raw prairie into seedbed that would otherwise have lain dormant for years to come.

Western Canada's big acreage in 1915 (made so, largely through the tractor) enabled us to take advantage of an unprecedented yield per acre that far more than wiped out any obligation that this country may have had upon the farm tractor.

To the homesteader the clearing of land, either prairie or bush, is a slow and tedious task, so slow in fact that he cannot enjoy the fruits of his own labor as he should.

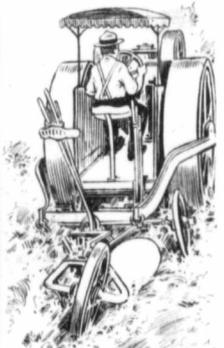
To the average farmer with a half section or more under cultivation the labor problem comes as a serious menace to his operating his farm successfully.

To both of these comes the tractor, not as a panacea for every farm trouble but as something that will supplement the farmer's personal efforts and make his equipment more efficient.

Careful investigation has established the fact that a majority of the farmers who have found the tractor to be an economical investment, have found it so because of two things. One is the increase in acreage possible where the tractor is used and the other is the relative ease with which heretofore unavailable acreage may be brought into a condition to admit of profitable cultivation. For the tractor not alone will plow and till more acres within a given time, but it also has the capacity for doing the necessarily rough work of preparing additional acres so that they may be tillable.

The tractor will pull trees, tear out stumps, grub out shrubs and bushes, loosen and tear out rocks and boulders, break up intractable soils, dig drainage ditches and uncomplainingly, efficiently and economically do those many things which were hopelessly beyond the feeble means at the disposal of the farmer of the past.

This is the first of a series of six short discussions on "What The Tractor Will Do On The Farm." The remaining five will appear in succeeding issues.—Ed.



GRUBBING

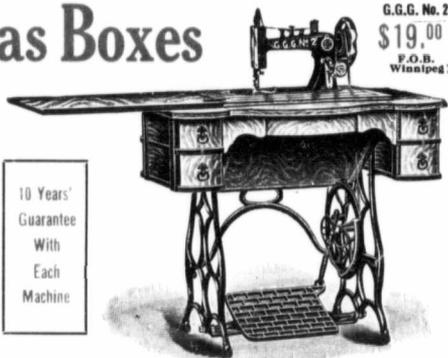


TEARING OUT HEDGES



Worth While Xmas Boxes

Make substantial gifts this year. How mother or daughter would like a sewing machine! And father and the boys need other things than ties! Better suggestions than these are hard to find.

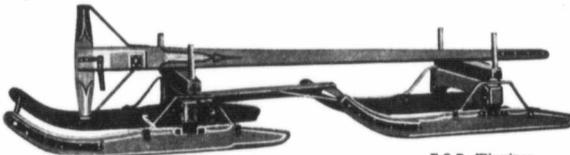


G.G.G. No. 2
\$19.00
F.O.B. Winnipeg

10 Years' Guarantee With Each Machine

G.G.G. Canadian Sleighs

A sturdy, well-made sleigh that has service and long life built into every part. Bolsters are of hardwood with their ends well protected with iron. The runners are of bent selected oak, built for the kind of work you need it for:



- 2 in. Steel Shoes, weight 450 lbs. Price... \$27.00
- 2½ in. Steel Shoes, weight 515 lbs. Price... \$29.00
- 2½ in. Cast Shoes, weight 650 lbs. Price... \$32.00

F.O.B. Winnipeg

G.G.G. Sewing Machines

A ten years' guarantee backs these machines. Three styles give you an opportunity to pick one to exactly suit you.

The G.G.G. Special is an exceptionally fine model, beautifully finished, six roomy drawers, drop head. The working parts are of the finest workmanship and material. No machine can be better adjusted to the work in hand than this. Has ball-bearing, easy running stand. It is, without question, a machine equal to any other on the market.

The G.G.G. No. 1 has full size sewing head and made of good material. Encased in oak, finished in golden shade. Drop head. A good machine throughout, easy to operate, and one that can be depended on for long continuous service.

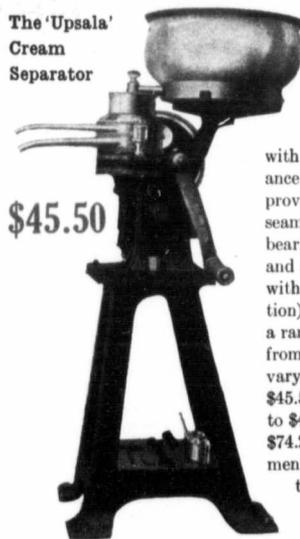
The G.G.G. No. 2 (like illustration). A splendid machine for the money. It will do good work and, with care, will stand up under constant use in a satisfactory manner. Our 10 year guarantee covers this machine also.

With all machines there is a complete set of attachments and book of instructions. See supplement to 1916 catalog for detailed description. Prices are F.O.B. Winnipeg.

G.G.G. Special \$30.00 G.G.G. No. 1. \$20.50 G.G.G. No. 2... \$19.00

G.G.G. Cream Separators

The 'Upsala' Cream Separator



\$45.50

No need now to look farther for a better machine than this. Steady, powerful, and efficient, it will hum along, doing good work, with seemingly endless endurance. You'll find the latest improvements on the "Upsala"—seamless milk vessels, dust-proof bearings—automatic lubrication and so on. Can be had with or without iron stand (see illustration). Four sizes give you a range of skimming. Capacity from 230 lbs. to 660 lbs. per hour, varying in price from \$30, \$41, \$45.50 and \$60.00 without stand to \$45.50 (as shown), \$51.25 and \$74.25 with stand. Our supplement to 1916 catalog explains them in detail.



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\$39.00

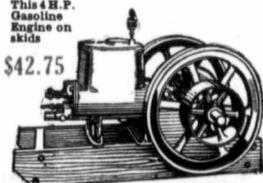
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The Portland Cutter illustrated at \$39.00 F.O.B. Winnipeg, is a fine example of our line. For long service, quality and price buy your cutters from us. Our catalog illustrates several at prices from \$24.00 to \$59.00. Winter without a cutter at hand for pleasure and business means many disappointments.

This 4 H.P. Gasoline Engine on skids

\$42.75



G.G.G. Gasoline Engines

Give you a line of quality engines of the highest type—at prices you can afford to pay. Not cheap engines, mark you, but the kind that gives long-lived power service year in and year out. Our catalogue and supplement explains them thoroughly.

Livestock shipments are looked after for individuals or associations by us at the Union Stock Yards, St. Boniface, Man. Implements, Lumber and Farm Supplies sold direct at factory-to-you prices.

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THE LIGHT TRACTOR

By E. R. WIGGINS

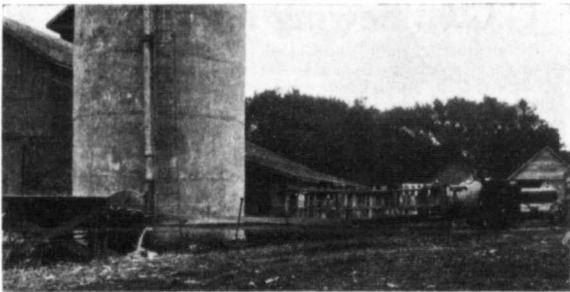
II.

Economics of the Small Tractor

BEFORE any one can say that the small tractor is a complete success, he must be assured that it pays—that it is a matter of economy. The tractor is a new thing and a farmer has to consider very seriously any step that involves new methods of farm work. In tractor farming there are certain investments to make and a different order of farm

or a little better. In tractor work it pays to be conservative. A tractor is a machine, which does not think for itself; it needs care and attention and its economy depends upon the way it is handled.

In order to determine the real cost of using a tractor for one year, let us study conditions on farms of 210-270 acres, and learn the cost of working with horses alone, or with an 8-16 or 12-25 tractor in connection with horses.



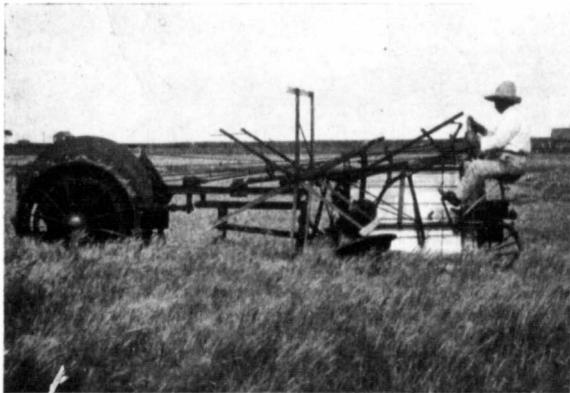
The filling of silos will soon be a regular fall job for the small tractor

management must prevail. This requires money and time. The prospective tractor buyer wants to know if even with this added expense, will the returns from the tractor justify its use?

To start—just as in every other enterprise—the human equation is an important factor. The success of a tractor depends greatly

From a study of eleven farms in Nebraska, ranging in size from 210 to 270 acres, I found there were nine work horses per farm. A study of sixteen farms widely scattered over the United States also shows nine horses.

In 1913 the average price of draft horses was \$180; to-day, this price is higher, about \$200. In



The farmer who has any respect for horse flesh enjoys this sight

on the owner himself. He must understand his machine and know thoroughly how to operate it. A small tractor does displace some horses, but a farmer new in the tractor game should not get rid of too many horses all at once. He should wait until he is sure that he and his tractor are going to do the work as well as has been done,

1913, I found that in Nebraska it cost \$106.90 per year to keep a horse. This is figured on a basis of a horse costing \$180 and includes feed, interest, shelter, depreciation, harness, shoeing, care and veterinary service. On the basis of a price of a horse at \$200, the cost per year is \$108.10, which I believe is very conservative.

CO-OPERATION

—IN—

BUYING

Every Description of Farm and Household Necessities has

Saved Your Neighbors Thousands of Dollars

They found that by dissipating their purchasing powers, they were sacrificing a huge percentage of their hard-earned money. But by living out the principles of "Each for all and all for each" in pooling their funds so as to buy in carload quantities at wholesale or manufacturers' prices instead of in dribblets at any price they could realize a decent income merely from the saving this represented. **They have done this through their membership in the**

SASKATCHEWAN GRAIN GROWERS ASSOCIATION

This organization has its central office in the **Farmers' Building, Regina**, and every farmer in the province who has not already lined up with it is cordially and earnestly invited to

COME IN

Help yourself and your neighbors to buy for cash direct from the factory through your own organization. It can be and is being done with far greater advantage to the farming interest than is generally known through

Co-operation:

"Each for All
and . . .
All for Each"

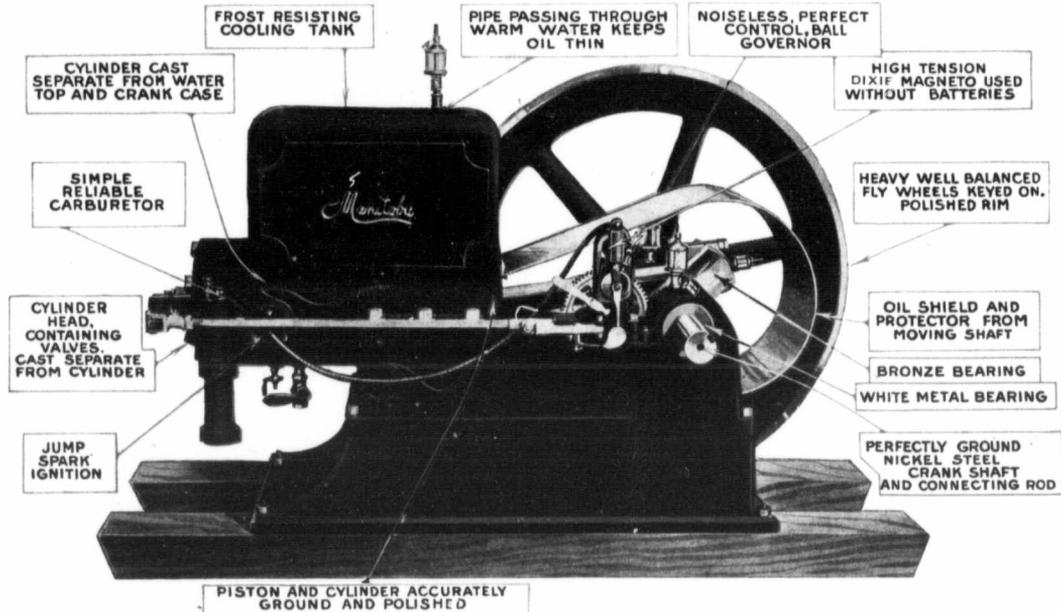
"Co-operation supplements politics economy by organizing the distribution of wealth. It touches no man's fortune, it seeks no plunder, it causes no disturbance in society, it gives no trouble to statesmen, it enters into no secret associations; it contemplates no violence; it subverts no order; it envies no dignity; it asks no favor; it keeps no terms with the idle, and it will break no faith with the industrious; it means self-help, self-dependence, and such share of the common competence as labor shall earn or thought can win, and this it intends to have."
—G. J. HOLYOAKE.

Write to-day for full details of this organization, what it has to offer you in **solid service** towards reducing the high cost of living.

For further information apply to your Local Secretary or write the Central Office:

Saskatchewan Grain Growers' Association
Farmers' Building **REGINA**

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IN OUR WORKS IN BRANDON**



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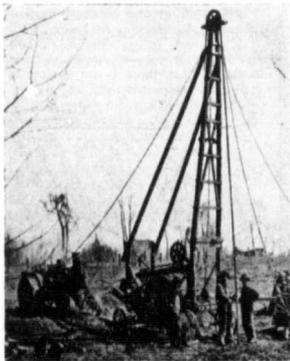
MANITOBA ENGINES LIMITED, Brandon, Man. and Calgary, Alta.

Thus, the total power cost for a year on the 210-270 acre farm, considering the use of nine horses, alone, is \$972.90.

On the 16 farms above mentioned, tractors were placed and on the average, each tractor took the place of three horses. On three of these farms, no horses were displaced, and on the rest, the number displaced ranged from zero to six horses. According to a U.S. bulletin, before buying a tractor, one horse was kept for twenty acres of tilled land; after the purchase of a tractor, one horse was kept for each 30 acres.

It is an interesting thing that the men with two or three years' experience with tractors, generally displaced more horses than the men with only one year. Recently I read a farmer's statement that as a rule, the number of horses that could be displaced by a tractor on a farm was equal to one-half the draw-bar h.p. of the tractor. For instance, if a man buys an 8-16 he can displace four horses and with a 12-25 he can displace six horses. With these facts in mind, let us assume the 6-16 will displace four horses and the 12-25 will conservatively displace five horses. On the market, the four horses will bring \$800 and the five \$1,000.

Let us now consider the first cost and the expense of operation of the two and three-plow tractors. The average price of nineteen standard makes of two-plow tractors is \$825. The average price per draw-bar horse power of these nineteen smaller tractors is \$82.60 and the cost per pound is 18.4c.



Well-drilling is another light tractor job

The average price of nineteen makes of three-plow machines is \$1,050, or \$84 per draw-bar horse power and 17.4 cents a pound. In 1913, I found that 3 per cent. of the first cost covered the annual repair bill, but this figure was based upon a study of

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.**

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Oldest and Largest Oxy-Acetylene Welding Plant in the West

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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.

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ALL INQUIRIES PROMPTLY AND CHEERFULLY ANSWERED BY MAIL

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

machines that had only been in use from two to four years. To be conservative let us say 4½ per cent.

Following directly after the cost of repairs comes the item of loss of time. The causes for lost time are: delays due to breakage and time repairing, state of weather, condition of soil, losses due to ineffective operation and delays that can not be helped, such as adjusting hitches. According to U.S. Bulletin No. 719, of 200 tractor owners in Illinois, 57 stated their tractors were not out of commission a single day, while 43 of the men reported seven days' loss. On this basis the loss per tractor each year would be three days; this is figured on the use of the tractor about fifty days per year. Rainy weather and wet soil probably causes more delay for tractors than horses. However, one would not be far off in figuring the same for tractors as for horses in this

economical than the large machine.

Depreciation is a subject in connection with tractors that has been discussed widely. One item is the depreciation due to change in style. A farmer buys a tractor to-day and keeps it eight years, the chances are that his tractor will be entirely out of date, and because of this will have a depreciated value even if not worn out. However, in the large tractors, this has not been true, because their designs have not radically changed. I am told there are machines in the large sizes in the field to-day that have been in use fourteen years. There is no reason why with good care a tractor should not have a life of ten years. A definite figure on this for small tractors is hard to obtain because these machines are still new. According to the U.S. Bulletin No. 719 the average life is eight years, or 12.5 per cent of the first cost annually.

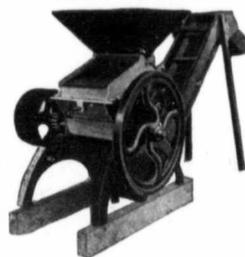


Plowing with a light tractor is now such a common thing as to attract little or no attention

regard, because if the soil is ready to plow properly, for example, it will be in just as good condition for tractors as for horses. I found in Nebraska from a study of weather and soil conditions and soil temperatures that a tractor can be used 172 days per year. Of course this depends upon location. For Nebraska, this period of 172 field work days comes during the time from March 22nd to December 1st. Some operators lose more time than others by not handling the tractor properly. Some farmers will get stuck in soft place, due to carelessness, when others would go through. These delays cost money and should be charged to operation. Such costs as these are generally higher the first two years than later. A loss of time with a large tractor is much more serious than with a small machine, because the delays cost so much more. It is this item alone that makes the small tractor more

The amount of fuel the small tractor uses depends upon the load the tractor carries, upon weather conditions and upon the care the operator takes in handling and adjustment. Also, there is considerable waste which Prof. I. W. Dickerson, of Illinois, says amounts to 15 per cent for gasoline and 5 per cent for kerosene because of evaporation and spilling. It takes on the average of 2¼ to 3 gallons to plow an acre, and an 8-16 tractor will plow from 7 to 9 acres and the 12-25 tractor 9 to 12 acres per day. Another way to estimate the fuel used is to calculate as follows: A gas tractor will use about .9 pound per brake horse power an hour. The 12-25 tractor at full load will use .9x25=22.5 pounds per hour, or 225 pounds a ten-hour day. There are approximately 6¼ pounds of gasoline in a gallon; 225 divided by 6¼=36 gallons per day. Likewise the 8-16 trac-

Better Stock With Better Feed



All up-to-date stock raisers and farmers realize that stock properly fed on properly crushed grain thrive far better and fatten much quicker than when fed whole grain. Improperly crushed grain being little superior to whole grain as stock food. The "Economy" Roller Crusher crushes the grain absolutely and thoroughly, and there are hundreds of users who will gladly verify the above statement. The Economy Roller Crusher has a great many advantages over any other machine made for the purpose on the market to-day. It works perfect and does perfect work. Our Economy Shaker Screen Attachment absolutely prevents nails or any other hard substance from getting through the rolls and into the ground feed. An absolute protection for the rolls as well as your stock.

ECONOMY CRUSHERS

are made in four sizes

12 in. 2 Roll Crusher. Price each.....	\$50.00
12 in. 2 Roll Crusher. Price each.....	\$5.50
12 in. 3 Roll Crusher. Price each.....	\$1.00
14 in. 3 Roll Crusher. Price each.....	\$1.50
Shaker Screen. Price each.....	\$0.25
Bagger and Elevator. Price each.....	\$5.00

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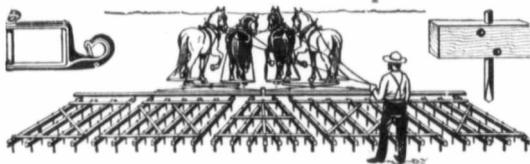


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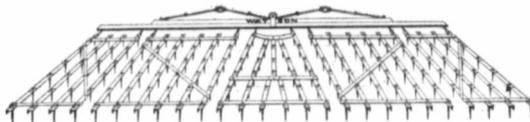
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Watson's Boss Wood Harrow

This is without doubt the best-selling Harrow in the West. Because it is a different and a better harrow. Experienced farmers appreciate the difference the moment they see WATSON'S.

It is made of seasoned hardwood—correctly designed and finely finished. Has malleable draw clevis of the very best pattern, and two rivets to each tooth, so that there is no danger of its coming loose or splitting the bar. Will do better work than any other harrow of its kind.



Watson's Steel Boss Harrows

WE SELL:

- Feed Cutters
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Our New Steel Boss Harrow does the kind of harrowing that pays. Tooth bars all angle steel, cross braces of channel steel, each tooth separately fixed in place by steel wedge. Teeth are dagger shape, with edges straight in line of draft. Equipped with pulley hitch eveners. Light draft, easy on horses. 101-tooth, width 17 feet, and 149-tooth, width 24 feet.

John Watson Mfg. Co.

Winnipeg

tor would use 23 gallons of gasoline a day. A tractor will burn about 83 per cent as much gasoline in gallons as it will kerosene. On this basis the 12-25 will burn 43½ gallons of kerosene and the 8-16 tractor 27½ gallons per day.

According to U.S. Bulletin No. 719, tractors use about one gallon of lubricating oil to every 12.5 gallons of fuel. Prof. Dickerson states the allowance of oil is one-fifth of a gallon of cylinder oil and an eighth of a gallon of lubricating and gear oil to each acre. These figures appear rather high and do not check with my experience during the past summer with an 8-16 tractor, where one gallon of cylinder oil was used with every twenty gallons of fuel and one gallon of lubricating oil was used with approximately thirty-five gallons of fuel. Where kerosene is used, the amount of oil is increased about 25 per cent, because considerable unburned kerosene passes by the piston into the crank case cutting the oil and grease.

The cost of labor to run the tractor, the writer places at \$2.50 per day. This figure is rather low for the present high wage scale that prevails. A tractor requires care during other times than when it is running. This amount of labor amounts to nearly one hour a day when one considers that after the season is over the tractor has to be overhauled and cleaned. During the working day it has to be oiled and inspected but I believe it fair to charge this time to the amount the tractor accomplishes during a day and to say that the tractor only does so much and assume it runs throughout the entire day. The item of man labor will not be included in final summaries of costs. The number of days a tractor is used per year can be placed very conservatively at 50, although when rightly organized, the tractor can be used at least 75 days per year. Many tractors are used 100 days per year.

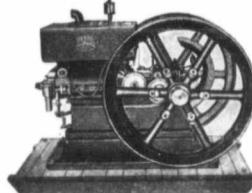
The following is a summary of the power costs for a year on 210-270 acre farms, first with nine horses, second with the 8-16 tractor and five horses and third the 12-25 tractor and five horses.

I.	
Power cost of nine horses for one year equals.....	\$ 972.90
Power investment equals.....	1,800.00
II.	
Power cost of 8-16 h.p. tractor and five horses.....	
Power cost of 8-16 gas tractor for one year.....	\$1,825.00
FUEL—gasoline at 20c. per gallon, using on the average 20 gallons per day for 50 days.....	\$ 200.00
Cylinder oil, 1 gallon per day, at 40c. for 50 days.....	20.00
Lubricating oil, 1 gallon of oil to 35 gallons of fuel—28½ gallons per year at 42c. per gallon.....	9.15
Depreciation, 12.5 per cent first cost of \$825.....	103.00

The "IDEAL" LINE

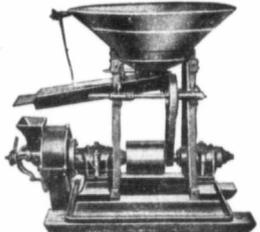
Of Brantford Steel Frame and Wood Saws

These saw frames have great strength and rigidity, also perfect balance. Strongly girted; tables of heavy steel plate. Extra heavy shafts with adjustable, dust-proof oil boxes. Frame supplied galvanized if desired. Saws stocked in 22, 24, 26, 28 and 30 inch sizes. Any length of pole can be handled on our pole saw. Saw is fully protected.



"IDEAL" Gas, Gasoline or Oil Engines

Made in the following sizes: 11, 21, 31, 41, 6, 8, 10, 12, 16, 18, 20, 22, 25, 30, 35, 45 and 60 H.P. Equipped with the best high tension igniters—no batteries required. Double exhaust. Low fuel consumption.



Maple Leaf Grain Grinders

Made in 6, 8, 10, 11, 13 and 15 inch sizes. Above we show our low base, heavy service grinder, equipped with sectional flat plates; 8 and 10 inch sizes can be fitted with concave or flat plates as desired. Before you buy a grinder investigate the "Maple Leaf" line.

Ask for Particulars and Prices of any Machine

New "IDEAL" 15-25 H.P., Hopper Cooled Oil Tractor



For your next spring's work you should investigate the New "Ideal" Light Weight 15-25 H.P. Opposed Cylinder, Hopper Cooled Oil Tractor. This tractor was built for field experience and is built right. We also, build Oil Tractors of 18-35 and 25-50 H.P.

GOOLD, SHAPLEY & MUIR CO. LTD.
The Made-in-Canada Line of "IDEAL" Farm Machinery
Factory: BRANTFORD, ONT. Branches: WINNIPEG, REGINA, CALGARY

"IDEAL" Windmills

"Ideal" Windmills are a standard in Canada. Built of the very best material, perfect in design and construction, they deserve a place on every farm where wind power is used. They are built in a wide range of sizes to meet every requirement.

The "IDEAL" line of Farm Machinery consisting of:
Engines, Grain Grinders, Pumps, Pump Jacks, Pump Cylinders, Saws, Windmills, Tanks, Tractors, Combination Threshers and Concrete Mixers, is built for you, Mr. Farmer.

Repairs, 4% per cent by \$825.....	37.00	Depreciation at 12.5 per cent first cost of \$1,050.....	132.00
Loss of time for 3 days, estimated at \$8 per day.....	24.00	Repairs, 4% per cent of \$1,050.....	47.40
Interest on investment at 6 per cent of \$825.....	49.50	Loss of time, 3 days at \$10 per day.....	30.00
Taxes, insurance, shelter (estimated).....	25.00	Interest on investment, 6 per cent of \$1,050.....	63.00
Total 8-16 tractor power cost.....	467.65	Taxes, insurance, shelter (estimated).....	32.00
Power cost 5 horses.....	540.50		
			\$ 671.00
Power investment—		12-25 power cost.....	\$ 671.00
5 horses at \$200.....	\$1,000.00	Power cost 4 horses.....	432.40
1 8-16 tractor.....	825.00		\$1,103.40
	\$1,825.00	Power investment—	
Power cost of one 12-25 tractor and four horses.....		4 horses at \$200.....	\$ 800.00
Power cost of 12-25 tractor for one year.....		1 12-25 tractor.....	1,050.00
FUEL—Gasoline at 20c. a gallon—using on the average 32 gallons per day for 50 days.....	\$ 320.00		\$1,850.00
Cylinder oil, 1 gallon for every 20 gallons of fuel, at 40c. per gallon.....	32.00		
Lubricating oil, 1 gallon to every 35 gallons of fuel, at 32c.....	14.60		

those eight hens that you sold me? Poultry Raiser—Yes ma'am. Angry Purchaser—Then why is it that I'm never able to get more than two eggs from them and sometimes not so many in one day? Poultry Raiser—I don't know, ma'am, unless it's because you look for eggs too often. Now, if you look for them only once a week I feel quite positive that you will get just as many eggs in one day as I did.

—

Those Prolific Hens
Angry Purchaser—Didn't you tell me that you had got as many as twelve eggs in one day from

those eight hens that you sold me? Poultry Raiser—Yes ma'am. Angry Purchaser—Then why is it that I'm never able to get more than two eggs from them and sometimes not so many in one day? Poultry Raiser—I don't know, ma'am, unless it's because you look for eggs too often. Now, if you look for them only once a week I feel quite positive that you will get just as many eggs in one day as I did.

—

Skipper of Tramp (having lost his bearings on a dark, stormy night, and trying to get his position on an old and filthy chart)—If that's Cardiff, Bill, we're orl right; but if it's a fly spot, 'eaven 'elp us!

Patmore's Reliable Seeds, Trees, Shrubs and Plants

CHRISTMAS DECORATIONS, XMAS TREES, HOLLY, MISTLETOE, also CUT FLOWERS and FLOWERING PLANTS IN SEASON. Write for our Special Xmas Price List.

Collection No. 1

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

Collection No. 2

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

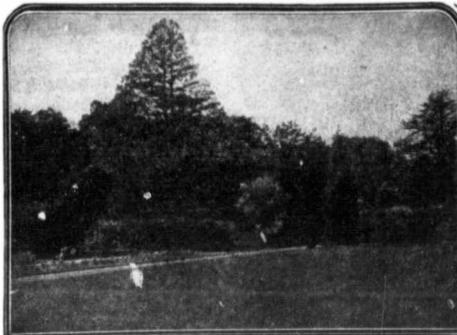
Farmers' Collection No. 3

Contains 1 lb. Mangel, 1 lb. Sugar Beet, 1 lb. Swede, 1/2 lb. Carrot, 1/2 lb. Kale and 4 lbs. Rape—8 lbs. seed for \$3.00 prepaid.

Write to-day for

OUR 1917 CATALOGUE

Profusely illustrated and cultural directions.



We are Special Agents for Messrs. Sutton & Sons, of Reading, England. We list in our catalogue the hardest varieties of their World Famed Seeds in sealed packets at 10c. per packet.

For \$10.00 Cash with Order we Will Send prepaid to any address—

- 50 Currant and Gooseberry bushes of best varieties.
 - 100 Raspberry Plants, best varieties.
 - 12 Plum and Fruit Trees, young and thrifty, 2 to 3 ft. high, and 12 Rhubarb Roots.
- All of above for..... \$10.00**
in which we list all the hardest and best varieties of Vegetables and Flower Seeds, Fruits, Trees and Shrubs, Grasses, Fodders and Seed Potatoes.

We have growing in our Nursery and offer for sale—

- 500,000 Caraganas, 1 to 3 ft. high.
- 255,000 Native Maple, 1 to 3 ft. high.
- 6,000 Ontario Maple, 2 to 6 ft. high.
- 12,000 Native Ash, 1 to 8 ft. high.
- 150,000 Russian and other Poplar in all sizes.
- 50,000 Lilac, 1 to 3 ft. high.
- 115,000 Russian Golden Willow in all sizes.
- 70,000 Russian Laurel in all sizes.
- 5,000 Crab Apple and Plum Trees and a large stock of all hardy fruits, ornamental shrubs, plants, etc.

Brandon, Man. THE PATMORE NURSERY CO. LTD. Saskatoon, Sask.

The Dignity of the Farm

Continued from page 6

taught in many supposedly great institutions.

There are a great many people, supposedly educated, and others without education, who have no conception of the office that human beings ought to fill in the progressive economy of creation. They add nothing to the general advancement, but are like parasites existing on the fruit of the toiling brain and brawn of others. It makes no difference how rich one may be, idleness has no excuse in the economy of the creation of God. From the lowest diatom to the highest archangel, all are expected, according to their ability, to do their best in bringing about that human excellence toward which the creation through struggle tends.

3. The farmer too often forgets the chance he has of developing his esthetic nature, and so injures himself and drives his children in-

to other realms of life. It is not all of life to get land, stock, tools and money in bank, while wife and children have little to look out upon but the barnyard, and it may be an old waggon or broken-down piece of machinery at the front door. A little ornamental beauty is necessary to nobility. There should be some idea of dressing up the place.

It is honorable to go into the dust and even grime of industry—I have been in it all; but it is not noble to settle down to dwell in it. God makes water to wash if off and soap is a means of grace. God makes flowers to grow up out of the most unseemly dirt, and the lily to change the foulest into spotless purity; and we must all learn of Him in whose house both "strength and beauty" dwell.

Let a child be made acquainted with the beauty of the floral world, not only the visible form and color, but those delicate traces that are seen only through

the microscope; and if there be no innate tendency to degradation, it will be marvellous if it does not grow to frown down all that is unseemly in private and public life. Let there be a plot in front of the house devoted to lawn, trees, shrubs and flowers; and a garden at the side with all manner of herbs, vegetables and fruits that the soil and climate will grow; and I do not understand the wisdom of God if your family does not grow into better health of body, mind and morals. It will not cost much apart from your own work; but it will pay a hundred fold. It is the difference between a den and a home.

4. This leads me to speak to you of the happy influence of the country home upon the moral life.

He that is fixed in his country home can lay a better foundation than the wanderer or the city speculator who are ever subjective to greater temptations to lead a reckless life.

Secondly, he learns that a kind treatment of plants and animals will result in quicker beauty and usefulness. He thus learns that kindness leads to blessing. Thirdly, he learns that sloth is ruin. The sluggard who will not plan by reason of the cold, shall beg in harvest and have nothing (Prov. 20:4). So he may learn that he who defers the day of grace may call when there is none to answer. But on the other hand he will find that he who dresses his garden well will often be amazed at the quick response to wise pruning and careful culture; and he will learn to thank God even for affliction that pruned away the wild and thoughtless excesses of his own life, to make it bring forth better fruit. He will be solaced with the conviction that the general tendencies of God are gracious.

I discover everywhere in God's work a struggle toward the better. And if injury overtakes plant or



BURNS ORDINARY COAL OIL PRICE \$12.50

A Genuine Coal Oil Burning Lamp

not a makeshift advertised as a coal oil lamp, only to clog up and get out of order in a few weeks, but a **Genuine, Blue Flame Wickless Coal Oil Pressure Mantle Lamp.** Burns seventeen hours on one quart common coal oil—no insurance objections, perfectly safe—no smell—no odor—uses one mantle, renewals cost but \$1.50 per dozen; mantle ties on top and bottom.

MADE IN WINNIPEG. BUY FROM THE MANUFACTURERS DIRECT.

SPECIAL CHRISTMAS OFFER

We will accept orders for the holidays only for this wonderful lamp at **\$9.00 each cash f.o.b. Winnipeg;** the lamp comes complete with shade, pump, three mantles, and full directions for operating.
Sold under an absolute money-back guarantee.

ELECTRIC LIGHT PLANTS FOR THE FARM

We make a specialty of Electric Lighting Plants and have a winner in our 20-light plant which sells complete with necessary wire, drop **\$175.00** fixtures and lamps, less engine at....
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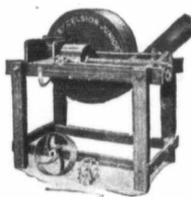
THE POWERLIGHT CO. LTD., WINNIPEG, CANADA.



Low Down Flat Plate Grinders

STOVER GRINDERS

10 in.	\$38.95
8 in.	32.95
8 in. concave grinders.	29.00
10 in. concave grinders.	34.00
Extra plates furnished with all grinders.	
Extra Burrs	
7 in.	\$1.50
8 in.	1.75
10 in.	2.25
12 in.	2.50



Excelsior Junior Feed Cutter

This is a great machine for the man who is feeding from 5 to 15 head of stock. Fitted with blower attachment on fly wheel to carry feed to the different parts of the barn. Elevates up to 20 feet. Can be run with from 4 to 6 h.p. Gasoline Engine, Sweep Horse power or Windmill. Stop, start and reverse lever within easy reach of operator.

Price with blower. **\$35.00**

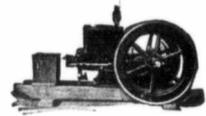
Complete Crushing Outfits

at 'Way Down Prices

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- 10 in. Crusher, 9½ H.P. Engine with self-starting Webster Magneto. **\$276.45**
- 8 in. Crusher, 7 H.P. Engine, with self-starting Webster Magneto. **\$220.45**

Drive Belt given FREE for the next 30 days



Only \$38.50

STOVER GASOLINE ENGINES

Will develop at least 10 per cent. over rated horse power. They are built by one of the world's biggest gasoline engine manufacturers. A standard for other engine makers to go by.

- 1½ h.p. with Webster Magneto. \$50.00
- 2½ h.p. with Webster Magneto. 68.00
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We have a good grinder which we recommend for use with our 1½ h.p. engine. Price **\$12.00**

SAW YOUR OWN WOOD

and your neighbor's with a Stover Guaranteed Saw. We sell you the very best saw made at an unbeatably low price.

Cordwood Saw Frame. **\$18.00**
Pole Saw Frame. **\$22.50**

Saw Blades

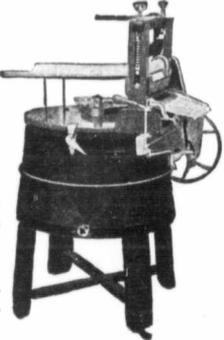
- 24 in. Each. **\$5.50**
- 28 in. Each. **\$7.00**
- 30 in. Each. **\$8.00**

We make adjustable guards for any style of saw. All babitted bearings, cold rolled steel shaftings, and heavy, rigid hardwood frame.

We could sell cheaper saws, but sawing is dangerous at best, therefore buy the best saw blade. There are none better made.

POWER WASHING MACHINE OUTFIT

Consisting of:
1½ h.p. Engine, Washing Machine and Belt Complete **\$60.50**



WE HANDLE WHAT YOU WANT

Stover Power Washing Machine... **\$22.00**

CANADIAN STOVER GASOLINE ENGINE CO., LIMITED

8th and PACIFIC AVENUE, BRANDON, MAN.

animal and threatens its precious life, the Creator has placed within itself minute little creatures—nucleated masses, capable of movement, which fly to the vesicle and gather up into themselves the injurious matter, even at the cost of their own lives, for the salvation of the body they are appointed to serve. This vicarious service, imbedded in the very constitution of the creation, leads me to love the loving God, who is on the saving side, and is written in a testament older than the Old—a prophecy of the love that so loved the world as to give his Son to redeem it.

Whenever I walk in the fields of my Heavenly Father's realm, I recognize the sun he set in the heavens as the source of all physical power. I bless Him for the pure air I breathe, the water I drink, the bread that strengthens my heart, the flowers that beautify my path, the vicarious life that redeems my life, and as the sun of the soul is seeking to mold my life into His own likeness. And love to Him, because He so first loved me, must ever constrain me to cultivate and guard the high trust with which He has honored me until the wisdom and goodness of the garden of God shall bloom in glory.

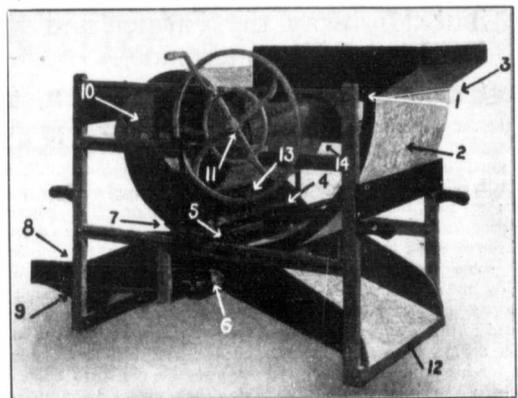
QUALITY OF WHEAT CAN BE CONTROLLED

Millers prefer wheat that is hard and flinty to a wheat that is made up of kernels that are white and starchy in cross section. Kernels of the latter type are softer and more easily crushed and are spoken of as "soft wheat." A considerable reduction in price is often made when this "soft" wheat is offered for sale.

Dr. W. P. Headden, of the Colorado Agricultural Experiment Station, has succeeded in determining the cause of this trouble and also the remedy, which every farmer can supply. He tells all about it in Bulletin 205 of the Experiment Station, which will be sent free to any farmer who will write for it.

In brief, the cause of "yellow-berry" is a high percentage of potash in the soil in proportion to the available nitrogen. The remedy is to keep the nitrogen content of the soil as high as possible without increasing the potash. This may be done by the addition of nitrates, the rotation of crops in which alfalfa or some other legume is used, and by proper tillage.

Twelve Months of this Magazine for \$1.00



"LOOP THE LOOP" SEED GRAIN GRADER

BETTER SEED—GREATER PRODUCTION

This new Automatic Grain Grader selects the heavier and rejects the smaller and light grains. It operates by a simple combination of the laws of gravity and air current—positively eliminating wild oats from wheat or other grains. Easy to adjust—easy to run, and handles every kind of seed down to Alfalfa.

KEEP YOUR CHOICE GRAIN FOR SEED AND SELL THE REMAINDER

- DETAILS:**
- Oscillating feed pan;
 - Curvilinear circular chute;
 - Regulator of oscillating feed pan;
 - Adjustable door in fan drum neck;
 - Adjustable valve throat;
 - Regulating plate on valve throat;
 - Air chamber;
 - Scalper sieve;
 - Cleaning rack under scalper sieve;
 - Adjustment of the wind doors on fan bowl;
 - Gear drive wheel;
 - Chute which carries the lighter grain out;
 - Handle on adjustable door;
 - 8 in fan drum neck;
 - Eight-tooth sprocket for driving lagger.

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This **own farm** **FREE!**



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—Just off the press. Tells all about my wonderful "Masterpiece Six," and every other engine I make. It is a regular encyclopedia on farm machinery. Tells how the different parts are made, how they are put together, and why Galloway gives greater value for your money. Every farm home should have one.

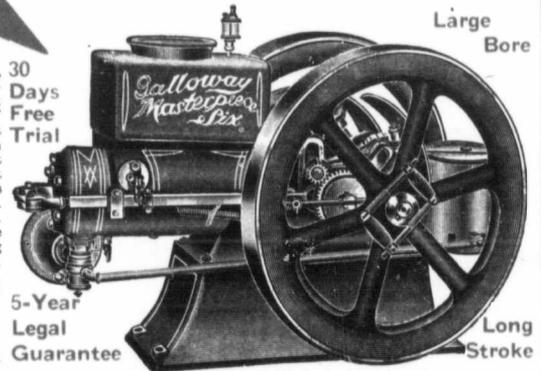
It contains 104 pages filled to overflowing with the biggest values ever offered in general merchandising—unheard of values in wearing apparel for men, women and children; boots, shoes, gloves, pianos, and everything needed for the farm home. Send for the book now—IT'S FREE.

Wm. Galloway Co. of Canada, Ltd.
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YOU NEED THIS ENGINE ON YOUR FARM. It is a masterpiece of mechanical genius. Powerful—large bore and long stroke. Easy to operate and understand. Guaranteed to develop more than its rated horse power, and will be SHIPPED ANYWHERE ON 30 DAYS' FREE TRIAL.

SPECIAL FEATURES: Hercules cylinder head, Masterpiece igniter, Economy carburetor, no overheating, perfect oiling system, improved fuel feed and great economy of fuel consumption.

A size for every purpose, from 14 h.p. to 16 h.p., and every one sold with a 5-year guarantee. More than 20,000 satisfied farmers are using Galloway Engines right now. Read full description in big catalog, send for one to-day.



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Days
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The Highway the Farmer and
the Thresherman

Continued from November Issue

If the farmer's wife is to hold her egg and butter customers she must supply them with regularity. The same holds true with regard to the more bulky farm products. The writer has in mind the case of a farmer who resided some few miles from a thriving town and whose farm lay along a macadamized road that led to the town. This same farmer always received a higher price for his produce than every one else not so situated, for as the dealers stated he could always be depended upon to get his stock and grain into market just when they wanted it and in better shape.

The monetary feature of the good road is by no means all that is to be considered. The degree of comfort which the well kept up-to-date highway affords should commend it to every farmer. It makes him feel that he is indeed a part of "God's great plan" and puts him upon the plane of equality with his fellowmen. He can indulge in the luxury of a fine vehicle, relegating the old cumbersome and

uncomfortable road wagon to a primeval time. If circumstances permit, even the automobile may be found among his transportation equipment. The boys and girls find it a pleasure to drive, to visit and to keep the young social standard of the community up to its proper level. They do not feel that they are isolated from the rest of the world and in consequence are far less liable to despise the old farm home and hie themselves away to city scenes and city pleasures. The sphere of school and church is widened; land values rise; wealth increases; better homes and more of them result, in fact the whole community finds itself uplifted and bettered as a result of the good road.

The farmer is in duty bound to give the highways their proper attention. He owes it not to himself alone but to his fellowmen. Every day's work done should be put in with a conscientious regard for results. Many farmers are in the habit of sending the poorest outfit on the farm to work upon the highway and they are

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Every description of breakage in machinery, tool or implement has been developed by us to a point of perfection never before attainable. By the oxy-acetylene process in the hands of the most skilled men employed as experts in this department of engineering, we guarantee to deliver a job that will continue to give perfect satisfaction.

**Don't Scrap Your
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Send us all your broken or cracked cylinders, crank cases, gear wheels, gear housings or machine parts. Cast or malleable iron—no matter what description of metal or fracture, we will restore the part to a condition equal to the strongest perfect detail of its kind.

We Guarantee Perfect Results, Prompt Service,
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253 SHERBROOKE STREET - - WINNIPEG

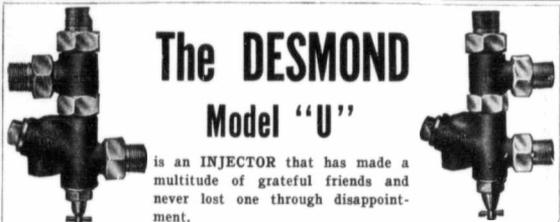
Lowest Prices consistent with Best Workmanship.

concerned only with fulfilling the statute requirements. This is a mistake and is not only a mistake but it is a theft and a financial loss both to the individual and to the community. The farmer is far too apt to regard road expenditure as a forced waste of money. He fails many times to grasp the fact that the public highways belong to him, that it exists for him and through him and only in so far as he gives to its due attention can he reap any benefits therefrom. Initial cost is the last thing to be considered, for this cost is distributed over a long term of years—years filled with comfort and wealth for the good road user.

Just a few words with regard to the good road and the thresherman. Generally speaking, the same thing that applies to the farmer applies to the owner of a threshing outfit, for in the majority of cases they are one and the same. In some cases, however, the thresherman has an interest in good stable highways that is not experienced by the farmer, an interest that belongs both to the realms of security and profit. This is an age of large threshing outfits. The threshing season is short and the large thresher and its attendant engine are necessary to the rapid separation of the grain from the straw. No longer is the slow, grinding horse power tolerated, for no farmer can afford to take the risk of having his grain threshed by such a slow process. The "bigger the better" is the motto, for it is the thresherman who has the largest outfit and who can thresh the most grain per hour that is assured of the longest run. These same large outfits are giants in weight and require firm roadbeds for their safe and speedy passage. A

small but soft spot in the highway is a treacherous thing to a modern 25 or 30 h.p. traction engine, and when once it gets its grip on the ponderous machine it means a loss of time, money and patience to the owner. The same thing is true of a weak bridge and even more so, for case after case is upon record where the engineer has lost his life in attempting to run his machine over some weak super-structure that spanned a ravine. Imagine if you will, engine owners, what it would mean to you if you could travel every highway and cross every bridge with a feeling of absolute security. To open your throttles wide and feel the thrill that comes to every good engineer when he knows that his engine is moving along at its best and upon "sure" ground. Is it not worth an effort upon your part to secure such a state of affairs? Will it not mean a lessening in the cost of moving and consequently greater profit? In this one thing the farmer and the thresherman have much in common. The farmer demands the service of the large outfit and the thresherman must have good roads before he can supply that service properly. He can no more run a ten-ton engine over a two-ton bridge than a modern ten-wheel railway locomotive can run on a narrow gauge siding. The threshing season is short at the best, quick work must be done and anything that will help out the cause—such as good roads—should be heartily in accord with every thresherman's views.

The engine owner has in his traction engine one of the most valuable of implements for road making. There is steady power in abundance, a thing most necessary in pulling a modern road-making machine. Every one who has seen a grader pulled by horses knows how unsatisfactory several teams will work together. They never pull evenly, with the result that the machine is jerked along, doing only half of its required work. The traction engine moves along slowly, surely, never shirking its duty and pulling the grader through gumbo or sand with the same apparent ease. The engine owner should find in road making a large field of usefulness for his engine, especially in a country like Western Canada, where the roads for the greater part are made across the prairie. Let farmer, thresherman and municipality meet upon common ground regarding the subject of good roads. The farmer and thresherman demand good highways and the municipality holds the controlling level to the situation.



The DESMOND Model "U"

is an INJECTOR that has made a multitude of grateful friends and never lost one through disappointment.

Model "U" is Flexible

and will do anything and everything an injector is expected to do and will do it perfectly. Starts low at 20 to 25 and works high to 175 lbs.

The Model "U" will fit all connections. There isn't a single awkward feature about it; no "Rights and Lefts," "Fronts and Backs." The two piece body connected with a Union Nut performs the trick. You loosen the nut, turn the connections to meet your piping at whatever angle is most convenient. No need to wait until your dealer can secure an injector to fit your piping. If he has but one Model "U" in stock it is a dead certainty it is the right one.

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Special high pressure injectors with a range from 60 to 335 lbs. can be furnished when desired. The Model "U" lifts water 25 feet; handles water at 130 degrees and delivers to the boiler at almost 212 degrees.

Absolutely automatic, it will not "buck" or "break" under any circumstances. The drip cock of the Model "U" permits draining the injector and piping in freezing weather and makes convenient place for drawing hot water when in operation.

Every injector is thoroughly tested before leaving our hands and carries an unqualified guarantee to do perfect work under any test. If your dealer cannot supply you, write us direct and give us his name. We will see you are supplied.




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Urbana, Ohio

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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.

Mr. Thresherman and Farmer:

If anything breaks or is worn out on your threshing machine or traction engine, have it welded by the Oxy-Acetylene process. Your time is valuable—it will 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. If he has not a welding plant write us, giving his name, and we will supply him with full particulars regarding our Welding Plant, which will enable him to repair your broken castings promptly and save you the trouble and money in ordering the new parts.

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Western Branch Office and Factory:
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Largest Manufacturers of Oxygen and Welding Plants.

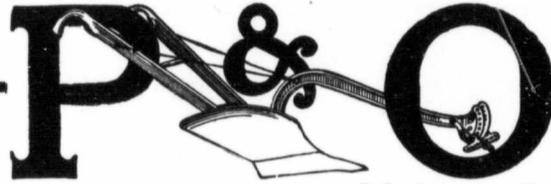


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THE F.M.T.C. WAY

You pay too many profits if you buy your lumber from your local dealer. Why not buy direct from us and save middleman's profits, dealer's profits, and salesman's commission? We can save you 20% to 40% on lumber, shingles, lath, windows, doors, fence posts, etc., and give you better quality. Mr. S. B. Thresherman, Sask., wrote us: "The car of lumber I purchased from you has given me the greatest satisfaction. I consider it a great advantage to buy from the mill, as it saved me from 25% to 30%." Our LOW PRICES, HIGH QUALITY and PROMPT SHIPMENT have made us hundreds of satisfied customers. You take no risk in buying from us, our guarantee of satisfaction is absolute. We allow examination before payment. You cannot afford to buy your lumber, etc., without writing for our prices. Let us tell you why. Send your bill of lumber for our delivered prices, or write for our price list TO-DAY. Buy early before the spring rush begins.

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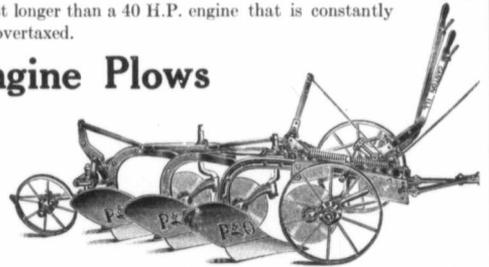


Making Good With the Plowman

To make good with the experienced plowman brings out all the good points there are in a plow. He knows just how much power should be delivered at the draw bar in order to secure good work under varying soil conditions. He not only knows what to expect of his engine, but what not to expect of it. Because his engine can deliver so many horse-power at the draw bar is no reason why it should do so if less will do the work. He knows that a 40 H.P. engine delivering 30 H.P. on an average will last longer than a 40 H.P. engine that is constantly being overtaxed.

The P & O Little Genius Engine Plows

are built for use with small tractors. Special attention has been given to the draft problem. Perfect bottoms and a wide range of adjustments make draft a question of soil conditions only. Hundreds of plowmen testify to the extremely light draft of the P & O Little Genius. Also to the ease with which it is handled from the engine, the wonderful beam and bottom clearance in trashy soil and dozens of other features that it will interest you to know. Send for catalog, "P & O Power Plows," describing our splendid line of engine plows. Now



Built by **PARLIN & ORENDORFF CO.**, Canton, Ill., U. S. A.

International Harvester Company of Canada, Limited SALES AGENTS FOR CANADA

WINNIPEG BRANDON REGINA SASKATOON YORKTON NORTH BATTLEFORD ESTEVAN CALGARY EDMONTON LETHBRIDGE

WHEN we ask, Is the small tractor a success, we do so because the large one is without a doubt a proven success. In fact, it is so successful in right conditions, that a great desire has swept over the country for tractors. Almost every farmer wants one, be he large or small.

There is something intensely interesting about farming with power, altogether apart from the advantages in way of economy, and when a farmer is not sure that the advantage is real, his personal desire for the tool makes the decision. As soon as it was known that the small

Is The Small Gas Tractor a Success?

By JOSEPH APPLETON

farmer would like a tractor, all the college professors, agricultural engineers and writers began to try and prove how successful a small tractor would be.

Instead of analyzing the situation in its true condition, and trying to lead in the matter, they seem to take all their suggestions from the public, and try to accommodate their own ideas and theories to the wishes of the crowd. We see a great many articles showing why the small tractor is a success, but very few where it claims it is a failure, and it seems to me that any article that takes so much effort to prove that it is a success must be very close to the dead line, and that the other side of the argument ought to be very inter-machine. They do not realize what a tractor is up against.

The auto engineer compares them with the auto. He forgets or else never knew the difference in their relative work. He forgets that the life of an automobile is ordinarily only one-fifth as long as the life of one of the

first-class big tractors. His argument that the smaller bore and valves, light piston, connecting rod, etc., show a more efficient engine, is perfectly correct as far as it goes, but his best auto engine will not last on a tractor the way it must last to be a success.

I have no particular quarrel with the multiple cylinder engine, but before it can be used for tractor work, even with the highest class of material in it, the bearing surfaces and all wearing parts will have to be increased a hundred per cent. Also, all parts will have to be heavier to take the constant maximum load that the engine has to develop hour after hour.

An engine can be put on the test block and run at its full load for days without showing any defects or breakages, but that is no guarantee that it will not develop weaknesses six months after it has been in the field. An auto engine may last for years with its occasional full load with-
esting. In any problem there is

always two sides, and before any correct conclusion can be made both sides have to be heard from.

My personal opinion is that in the great majority of cases the small tractor is a failure, and the farmer who owns one does not gain anything, but, in fact, loses. When I say small tractor I especially mean the two-bottom outfits, and there are even some rigs that will only operate one bottom, which is still worse.

The past two years have seen such a boom in small outfits that every firm in the country in any way connected with the implement or farm industry has gone into the manufacture of a small tractor. That they know nothing of the game has not in the least discouraged them. They hire some engineer who has had no more experience in that line than they themselves, and he goes to work and gets out a tractor. If he has originally worked on auto work, he will have an auto engine and transmission. If he has worked on heavy duty engines he probably will use a heavier type, but in either case it is a matter of luck if the outcome is any good at all.

To further handicap him, the sales department tells him it must not cost over a certain sum, the said sum being so low that it is impossible to get out a good

Continued on page 32

DROP A POSTCARD FOR



A.E. MCKENZIE CO. LTD. BRANDON, MAN. CALGARY, ALTA.

The Old "STARVED ROOSTER" Crows the Season's Greetings to His Many Friends and Boosters.

He Wishes Every Thresherman, Every Farm Power User, A Merry Christmas and Health and Prosperity Throughout 1917

Just at this time when this land of plenty is aglow with good cheer—everyone looking forward with keen anticipation to Christmas—the old "Starved Rooster" is not going to forget his friends, the Threshermen and Farm Power Users. In keeping with his regular custom and the spirit of the season, he wishes to express his appreciation of your liberal patronage and hopes for a continuance of same.

We, who speak for the Starved Rooster, are already making extensive preparations for 1917. We do not want to be caught "short," as we have been for the past several years. We want every Thresherman—every Farm Power User, who would like to own Aultman-Taylor Machinery, to be able to do so. Early preparation will enable us to supply your machinery wants promptly.

The "Starved Rooster" line of Gasoline-Kerosene Tractors, Grain Separators, Steam Engines, Clover and Alfalfa Hullers, Bean Hullers and Saw Mills for 1917, will be of the same high quality, from a material standpoint, but the design is going to be of even a higher standard than in the past.

Close field observation for the past year by our engineers has failed to reveal any weaknesses in construction necessitating any radical changes or building structurally different machines, so that their efforts have been confined solely to the developing, improving and simplifying the various types of machines which have proven so successful and satisfactory in the past. Thus, the "Starved Rooster" line for 1917 is going to set a new high standard of value in threshing and farm power machinery that is bound to place the man operating it in a position to crush all competition. It is going to put the owner in a class by himself.

You may have in mind a tractor for the coming season. If so, we know you want to counsel with Aultman-Taylor before you buy. We have started thousands on the right track and we can save you money, too. You know last season thousands of farmers were "caught." Some of them have purchased their third tractor and now do not have sufficient power with which to do their work. Pretty expensive experience, don't you think? We can save you lots of grief if you will only communicate with us before buying.



Our wide experience along the tractor line is invaluable to you. Sit down and write us for tractor facts. We'll gladly put you tractor wise.

Or perhaps it's a Separator that is attracting your attention at this time. If you have ever threshed, we know you have heard about the New Century and its wonderful threshing qualities. We would be willing to wager that you've heard it's a "bang-up" good machine. It is light in weight and in draft, a fast, clean thresher and requires few repairs. Over thirty thousand of these machines in the field tell the tale. Order a New Century and you'll be on top all the while.

The past season was a good one in some localities for Clover. The Matchless Huller played an important part in the hulling of this valuable seed. You know what a record the Matchless holds for fast, clean hulling. The little No. 3 is small in size, but big in appetite. The No. 4 is the size huller for the average job. The No. 5 is the big huller of hullerdom. It will hull more seed and do a better job of it than any other huller built, regardless of size. Some huller, don't you think? Try it and you'll be convinced.

In Michigan and many other states, the Bean crop is an important one. These beans must be hulled and there's good money at this work. The Aultman-Taylor Beamer is built to do this work, and it does it well. One customer puts it this way: "Its work is marvelous and could not be done better if hulled by hand." If you live in a Pea or Bean growing community, it will pay you to look into this beamer business.

Why let your engine lie idle all winter when you can make big money sawmilling? You can find profitable work nearly every day during the winter if you own an Aultman-Taylor Saw Mill. The Junior Mill is what you want for small jobs. The Standard Mill for the larger jobs. Buy an A. & T. Mill and keep making money the year round. An A. & T. Mill is a good revenue producer during the cold winter months.

You must be interested in Aultman-Taylor Machinery. You must want more information concerning the particular machine you are interested in, so do not fail to write us for full information. DROP POST CARD.

AULTMAN & TAYLOR MACHINERY COMPANY

LOCK BOX 64, MANSFIELD, OHIO

Branches: MINNEAPOLIS, Minn.; GREAT FALLS, Mont.; REGINA, Sask.; CALGARY, Alta., Canada

Soldiers' Convalescent Home

Continued from page 14

is the local representative of the Hospitals' Commission, and from the first has literally made the interests of this hospital his first care, throwing into it the whole weight of a personality that wins everywhere and an energy that will not be diverted or denied. Under his direction, nothing, it would seem, has been overlooked or neglected that would in any way add to the comfort of the men or impart a cheerful atmosphere to the place.

The bedroom furnishings throughout are in white enamel, and the various large public rooms have been turned into class-rooms, recreation parlors, etc., and a thoroughly up-to-date shower bath equipment has been installed. An out-building has been provided with all that it will contain in benches, lathes, carpenter's outfit, etc.

Presiding over the hospital proper is—a woman, and here the fitness of things has been observed with rare judgment, for the matron, Miss Marcella P. Richardson, is a lady of exceptional ability and tact, with an enthusiasm that never flags and an experience that has come to few women of her years. She has gained the highest honors in her profession; served as nurse with the Canadian forces throughout the Boer war and wears both the Queen's and King's medals for the South African campaign. She was twice mentioned in despatches by Lord Kitchener and was also mentioned in despatches by Lord French for her work in the present war.

Owing to continuous and exceptionally heavy work in one of the largest British base hospitals in France, her health suffered a temporary set-back and she was compelled to relinquish duty for a time and seek rest and restoration in her native Canadian air. Happily her complete recovery synchronized with the call of the Hospitals' Commission for just such a woman, and there she is

respected and beloved by all who have come under her care and valued beyond "tangible recognition" by the authorities to whom she is responsible.

(It is interesting to note that Miss Richardson is the daughter of the late Judge Richardson who sentenced Louis Riel. From her native Woodstock she was brought to Winnipeg as a baby, and, when a very little mite, paid her first visit to Deer Lodge, then the home of the late Hon. James McKay, of the Hudson's Bay Company, and a member of Manitoba's first government. Mr. McKay had invited the Richardson family to dinner, and we have it on unimpeachable authority that baby Marcella (now the presiding genius of that historic house) developed the biggest appetite that day at that very hospitable table!)

Mr. William J. Warters is Vocational Officer for the province, and the educational work of the Hospitals' Commission in Manitoba is under his direction. His work in connection with the Winnipeg Public Schools is well known and the many departments organized at the hospital stand as evidence of his ability.

Mr. J. W. Smith is instructor in arts, crafts, carpentry, cabinet-making, wood-turning, modeling, freehand and constructive drawing and pattern making. Mr. Smith has had a world-wide experience, having been engaged in important work as architect's surveyor in Johannesburg, etc. He is also an artist of no mean order and has already inspired at least one pupil who has "done his bit" and whom we saw doing admirable work on a composition of still life in oils.

The old ballroom has been fitted up as a commercial school room with every needful accessory of desk, type-machine, reference library, etc. This commercial course consists of shorthand, typewriting, book-keeping, business English, arithmetic, penmanship, commercial law, salesmanship and the principles of adver-



THE SORT OF MAN WHO "GETS THERE"

Keen but Diminutive Warrior (unable to go the pace)—"I say, Long-legs, you can see further down the road than I can. Am I in step with them chaps!"

WHEAT AND OATS

ALFALFA, FLAX and other crops yield more if the Western is used in preparing seed bed. It has no equal for this work. Pulverizes, packs and mulches at one operation, without extra horsepower. Saves time preparing seed bed—saves seed. Especially adapted for rolling small grain when two or three weeks old—makes a perfect, much to hold moisture without hurting the grain.

Western Pulverizer, Packer and Mulcher Three Machines in 1

Made in 8 sizes, 1 and 3 sections. We want every farmer to have our free catalog before buying a roller or packer. It will prove we can save you money and have far the best machine. Contains full description and price direct to you. Orders from many farmers proving its advantages over other makes, and much other valuable information. Send for it today.

The Western Steel & Iron Co., Ltd., Implement Manufacturers
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Steam or Gas Tractors

Equipped with

"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.

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BEST ANTI-FRICTION BABBITTS ON THE MARKET

With forty years' experience in manufacturing alloys for all classes of machinery, the HOYT METAL CO. has evolved two alloys which are unsurpassed by anything of the kind now in use.

HOYT'S NICKEL GENUINE Babbitt is especially designed for heavy duty gas tractors.

HOYT'S FROST KING Babbitt is especially designed for threshers, separators and stationary engines of all classes.

If your dealer does not carry these metals in stock, send your order direct to us. In order to insure prompt delivery, send postal money order.

Nickel Genuine		Frost King	
Less than 28 lbs.	75c per lb.	Less than 30 lbs.	40c per lb.
28 lb. box	70c per lb.	40 lb. box	37c per lb.
56 lb. box	65c per lb.	60 lb. box	35c per lb.

Delivered to your nearest express or post office station.

Hoyt Metal Co. Eastern Ave. and Lewis St. TORONTO

FACTORIES—London, Eng.; Toronto, New York and St. Louis.

Donald Morrison & Co.

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.

Dr. Thomas' **Electric Oil**

Relieves all Pain in Man or Beast

25 Cent Bottles at all Dealers

The Engine that is years ahead of any engine offered DIRECT TO THE FARMER—

THE JUDSON THROTTLE GOVERNED KEROSENE ENGINE

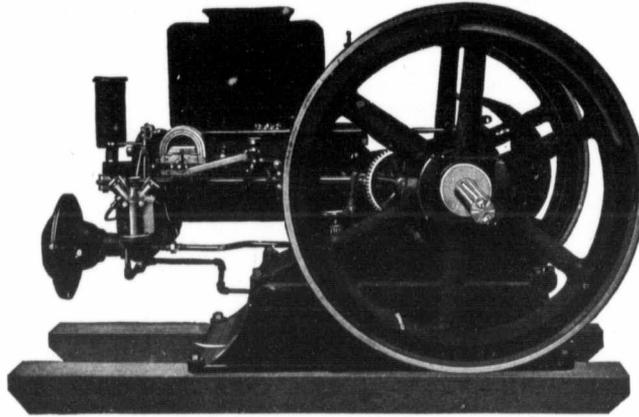
For Use on Kerosene,
Gasoline or Distillate

The Best Engine Made,
Regardless of Name,
Make or Price

Our Price Saves You
Money

Self-Starting Magneto

A Real Kerosene Engine
guaranteed to operate
without giving any
trouble whatever



30 Days' Trial

Surplus H.P. Guaranteed

Note the solid, heavy base
of our Engines, which
contains the fuel reser-
voir, in contrast to the
wooden base and tin tanks
as used by others

A pleasure to operate and
own

Always ready to run

The above is an actual illustration of the Judson Horizontal Hopper Cooled, Throttle Governed Kerosene Engine. The Throttle Governing Kerosene Engine is not an attachment to replace a gasoline mixer on a hit-and-miss engine and use kerosene, but consists of a different governor, mixer, heating chamber, with automatic fuel control, which must be built into the engine. The engine explodes a charge every working stroke, the governor graduating the amount of fuel and air taken into the cylinder in proportion to the load being pulled. To burn kerosene successfully the engine must be kept at an even temperature and to form a gas from kerosene requires wholly different methods than when using gasoline. To accomplish this it was necessary to completely change the method of governing to obtain an even temperature in the cylinder. The speed regulation is very close, making it an ideal engine for electric lighting or other power purposes where a uniform speed is required.

Our policy has always been to meet every practical demand from users of power—and this Engine is as far ahead of any other kerosene engine offered to the farmer.

PRICES OF JUDSON STATIONARY KEROSENE ENGINES, COMPLETE WITH PULLEY AND SELF-CONTAINED MAGNETO:
3¼ H.P., \$115.00; 5 H.P., \$145.00; 7 H.P., \$210.00; 9 H.P., \$250.50; 10 H.P., \$325.00; 12 H.P., \$387.50; 14 H.P., \$450.00

Our Catalog illustrates the most modern labor-saving machinery made. Send for a copy to-day.

C. S. JUDSON CO., LIMITED

Cor. Logan and Sherbrooke Streets

Winnipeg, Canada

tising. It is conducted by Sergeant-Major Angus of the A.S.C.

Prior to joining the forces, Mr. Angus had been engaged for many years in educational work of the same nature as he is now pursuing in more than one of our successful business colleges. He is a young man of outstanding character and ability. His uniformly kind and patient disposition has endeared him to the men he is leading on to new conquests in the battlefields of commerce. His soul is in his work and the first fruits of his efficiency have just been "marketed."

How can you help? Well they want two good milk cows, some well-bred poultry, one or two small stationary or portable gas engines and anything that can be conveyed without unusual risk of spoiling in transit in the way of dairy produce, vegetables, pickles or preserves of any sort.

Mr. Warters is on the eve of certain developments that will enable men to be thoroughly trained in the construction and operation of gas engines. He requires power also for shafting of the general workshop, but when some of our friends really get to know what he and his men are doing, we predict that the proffered assistance will exceed rather than fall short of their needs.

Could our readers look into the keen, honest light blue eyes of that old veteran, F. Nichols, who has charge of the garden and such live stock as is now in his keeping, they would realize at once that here was a man who might safely be trusted with the custody of any creature. The garden glory and vegetable prodigies of Deer Lodge were the subject of intense admiration this year. Mr. Nichols is necessarily a man of method. He is an old soldier, and therefore knows what is the value of order and dogged perseverance. He is an old South African veteran and saw service with the Royal Garrison Artillery in India, Aden and Gibraltar. He is a thoroughly practical market gardener and horticulturist of long experience.

If you have anything to be thankful for at this time, let your heart speak. Whatever your age, sex, condition or disposition, we urge you to one of the best outlets we know of for real service. Gladden the hearts of these worthy folks on this eve of Christmas, and bring joy to some of the best and bravest to whom you ever extended hospitality or kindly service. Write a letter first of all to Miss Richardson and tell her what you can and would like to do.

Fosston Automatic

No. 48 - - - - 48 Inch

A Point to Remember

The Fosston Mill stands supreme in the separating of WILD OATS.

Ask the man who operates one.

If your seed is selected or graded 100% good, you will surely have a full crop if the other conditions are favorable.

We also have hand-power mills in 24-inch and 31-inch sizes, for which we can supply an inexpensive power attachment.



Equipped with Closed Elevator, but not shown in cut

Power Machinery on the farm is the up-to-date way of decreasing labor and increasing efficiency. Farming nowadays has developed into a science—a business if you please, where time is money and where brain work counts as much as in any other line of endeavor.

If you are interested, drop us a card and we will mail full information and catalog.

John Deere Plow Co., Limited

Winnipeg Regina Calgary Saskatoon

IS THE SMALL GAS TRACTOR A SUCCESS?

Continued from page 28

out showing that any of the parts are too light, but that same engine on a tractor would spring and give, and if it did not go to pieces altogether, would be in constant need of adjustment and would soon wear itself out.

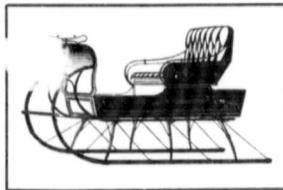
There is no doubt that a multiple cylinder engine can be designed to stand up to tractor work, but even at that, I don't think there is much excuse for them in the small tractor up to 25-B. H.P. A two-cylinder engine seems to me an ideal power plant for all small tractors. The engine reciprocating parts are balanced, and the unbalanced explosion is of little moment in a tractor. The construction is such that it compares very favorably in cost with any other, and the argument that the pressure per square inch on bearings of the larger cylinder type is greater than the smaller is theoretical and not practical, as the bearings can be made so large that the pressure will be only one-half as heavy as on any known engine, and the fact cannot be disputed that adjustments on the larger engine need not be so sensitive nor taken care of so often.

Also, this engine is about the easiest type of engine, except possibly the single cylinder, to adapt to the use of kerosene, and as the use of kerosene is almost necessary, in consequence of the cost of gasoline, we cannot afford to lose sight of this fact. Also the engine will be more economical in fuel because of decreased ratio of wall area.

The objection that the heavier impulses are very detrimental to the gears is largely imaginary. If the gears are large enough to have the necessary wearing surfaces and the fly wheel is as heavy as it ought to be, the shocks to the gears will give no trouble, and if they are covered and in an oil bath, will be the last part of the machine to give out.

At any rate, whichever type of engine is used, the machine as a whole must be made of the best of materials and correct proportions, and a machine of this type cannot be built for the price some of the small tractors are selling for, and this is one of the reasons why I think the small tractor is a failure.

Another reason and, if it is a true one, a great deal more serious, is, that I don't believe that the average small farmer has any real use for a tractor. I do not believe that the farmer who uses only four horses at plowing time and harvest time, has any use for a two-bottom tractor, because the ordinary two-bottom tractor will not really pull any



**When You Buy a CUTTER---
Think First of QUALITY**

Style, design and finish are important, too, but think first of QUALITY. That's what WEARS and makes your purchase a profitable investment. A well finished exterior does not guarantee a job being made of the class of materials you want in your cutter.

Buy a "Brantford" Cutter

Because it's built only of the very best of selected materials.
Because it's built for Canadian roads and conditions.
Because it's built so you can depend on it at all times.

Because it's attractive in design and finished in a manner to do justice to its extra quality.
Because the name "Brantford" stands for CUTTER QUALITY.

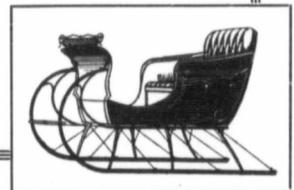
Why wonder what you will do about a Cutter? The BRANTFORD, sold by Cockshutt Agents, gives you the utmost in every respect—at a reasonable price.

Get posted on the Cockshutt Line. A visit to our nearest Agent will show you the right cutter for you—and many articles of farm equipment in which you are bound to be interested. See about it to-day.

COCKSHUTT PLOW CO., LIMITED

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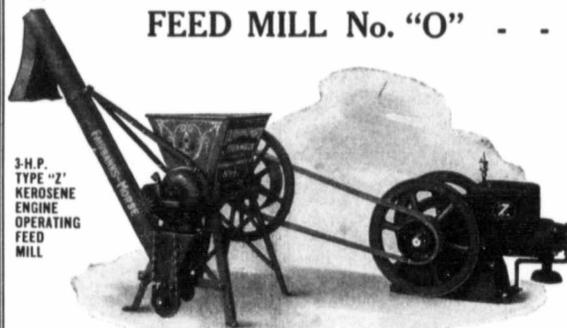
LOCAL AGENTS EVERYWHERE



Backed by the Canadian Fairbanks-Morse Reputation

You buy a Type "Z" engine with the contented assurance that you are getting a full share of Fairbanks-Morse quality, service and dependability.

3-H.P. Type "Z" KEROSENE ENGINE WITH BUILT-IN MAGNETO \$116.00 5% Discount for Cash
FEED MILL No. "O" - - - \$20.00



F.O.B. Winnipeg

An Engine quick to start in cold weather. Powerful, simple, substantial—low fuel cost—low maintenance cost. They are the most practical money saving and all-round satisfactory engines that your money can buy.

Ask us for full particulars about our engines and other farm machinery.

THE CANADIAN FAIRBANKS-MORSE CO., LIMITED, WINNIPEG, MAN. SASKATOON, SASK. CALGARY, ALTA.

more than his four horses. He probably might work his tractor longer hours, but the average farmer works his horses about as long as he has the time, because after he comes in from the field he has his chores to do, and by the time they are done, he is about done too.

If he does get a two-bottom tractor he can possibly sell two horses, but I cannot see how he can possibly get along without two of them, consequently when the tractor is working, unless he gets some help, which it would not pay him to do, the two horses

will be idle when the tractor is working. The statement that he can do his work with gasoline cheaper than can be done with horses I do not believe. He will always need a team on the farm, and the argument about feeding idle horses and time spent doing so, is imaginary to a great extent. He has to feed his other stock, so why not throw some to the extra team at the same time. He will spend more time keeping his tractor in order, and the cost of his oil, gasoline and repairs, will more than feed the team.

I don't believe the farmer who

uses less than eight horses can successfully use a tractor. In this case he will have a hired man and run two outfits of four horses each. Here he can sell four horses, get a tractor to do eight or more horses' work, and one man can handle it. The other man can take the remaining four horses and nobody is idle. The tractor can work longer hours and the other man can do the chores. In this way they can do what the tractor is supposed to do, and that is take care of the peak load and do it when it is wanted and in less

Christmas Greetings

To every Canadian Thresherman and Farmer, and with the sincere hope that in the New Year every pulley and driving wheel of the world's social and industrial life may be BELTED by an indissoluble bond of interest and affection. Love *lasts* and always *get there*, so does the



LION BRAND

RUBBER BELT

AND THE

Yellow Fellow

ENDLESS THRESHER BELT



THEY WILL OUTLAST THE GREATEST STRAIN THAT MAY BE PUT UPON THEM IN MANY YEARS

You can get them from any thresher company doing business in Canada. They cost a little more than other fabrics that are a big risk from the day they are used in any power transmission, but we guarantee our goods against all disappointments from slippage or breaking. They are the "guards" that will never betray their trust under any pressure—at threshing or at any time.

Gutta Percha and Rubber Limited, Not in Any Trust or Combine
 Winnipeg Fort William Regina Saskatoon and Calgary

time without the need of any extra help.

The argument that horses are so high is only one more reason why the farmer should use horses. Practically all his horses should be brood mares, and then they will raise him a colt every year, which will go a long way towards paying the feed bill. I know of at least one Iowa farmer who at plowing time works sixteen horses, and he claims that instead of his horses costing him anything, his colts and a little judicious horse trading bring the balance on the other side.

That the tractor can be used in the place of a portable is a great claim. I have seen very few small farms where the investment of a large portable was wise. About the only place that a large portable engine can be used on the small farm is to cut ensilage, and it certainly does not pay a farmer to buy a large engine and cutter for this one operation.

Of course I realize that there is a need, even on the small farm, for something that will help him to get out his work, that is, his peak load, in a more satisfactory manner. He certainly has to keep more horses and help for this period than he needs at others, but I cannot see how a tractor that will not do

any more work than four horses can help him.

On the other hand, if his tractor would do twice as much, he could afford to let his horses be idle, because of the advantage of getting his work done the moment he needs it, and a tractor of that type would have to be a three or four bottom machine, which would necessitate an engine that would develop a good, honest 25-B. H. P.

While the big machine costs more, it also lasts longer. The cheap, light, high speed machines, that are the only kind that can possibly be built for anything near the price they are selling for, will not last over one-third as long, and in that time will need as much tinkering as the large one in its prolonged life.

I do not want to appear to be antagonistic to the tractor, because I am not; in fact, I am in the game. But I do not see where the real small tractor comes in, and the ultimate good of the tractor game is dependent on its practicability and economy, and if anyone sees what he thinks is a wrong tendency, he ought to mention it. I do not expect everybody to agree, but wish the ones who do not would come out with their data to the contrary.



F. HEDLEY AULD,
Deputy Minister of Agriculture, Saskatchewan

Congratulations to the Saskatchewan Department of Agriculture in making the appointment it has just ratified with regard to the office of Deputy Minister. We are delighted; our friend has abundantly proved his mettle and his fitness for the job. We wish Mr. Auld a long lease of life and all the tenure of the office he himself would care to hold.

High-Class "British" Machinery

The "Marshall" Oil Tractor

For Kerosene or Gasoline

Built Like a Battleship
Runs Like a Watch ::



The Dreadnought of the Prairies

This Tractor is made in two sizes, 16 H.P. Drawbar, giving off 30-35 Brake H.P. on the pulley; 32 H.P. Drawbar, giving off 60-70 Brake H.P. on the pulley. They are economical in fuel, durable and reliable. Guaranteed of finest materials and best workmanship. They need few repairs.

IF YOU WANT SATISFACTION BUY OUR TRACTOR, AND THAT WILL STAND UP AND GIVE YOU MANY YEARS' SERVICE
 Farmers are seriously warned not to be misled by the light, short-lived, inferior, cheap (so-called) tractor; it will not stand up and only causes trouble, vexation and loss.

Send for Catalogue

SEMI-DIESEL, TWO-CYCLE OIL ENGINE, STATIONARY AND PORTABLE

Suitable for general Farm Work, Threshing, Electric Lighting, Contractors, and General Commercial Use.

Marshall, Sons & Co.
(Canada) Ltd. Engineers
Saskatoon Canada
P.O. Box 1564 Telephone 3393

The 1917 Case Catalog Off the Press Jan. 1st

ON the next page is a reproduction of the 1917 Case Machinery Catalog. The illustration fails to do justice to the book itself. *It is the finest and most elaborate catalog we have ever issued.* It is our 75th anniversary edition because next year Case celebrates its three-quarter century mark of doing business. It explains the growth of this Company, it depicts by word and illustration a line of agricultural machinery that is *recognized as the standard by which others are judged.* Color reproductions many of them showing the machines in *actual colors* are shown in this beautiful catalog. You must *see it for yourself to appreciate it.* It is a reference book that will guide thousands of the threshermen and farmers and should be on the reading table of every man's home.

How to Get This Book - Free

This book was costly to produce but we want to put it in the hands of every one that will be interested in *good power farming machinery.* And so we send it free to every one who will send his name and address on the coupon on the next page. There are no strings attached, you are under no obligation to buy. Each year the list of Case customers grows and we want to prove to you *why Case leads* in the agricultural field. We want to acquaint you with *quality* products. Sign the attached coupon on the next page. Send for this book - TODAY - We mail it postpaid.

J. I. CASE THRESHING MACHINE CO., Inc.

798 Liberty St.

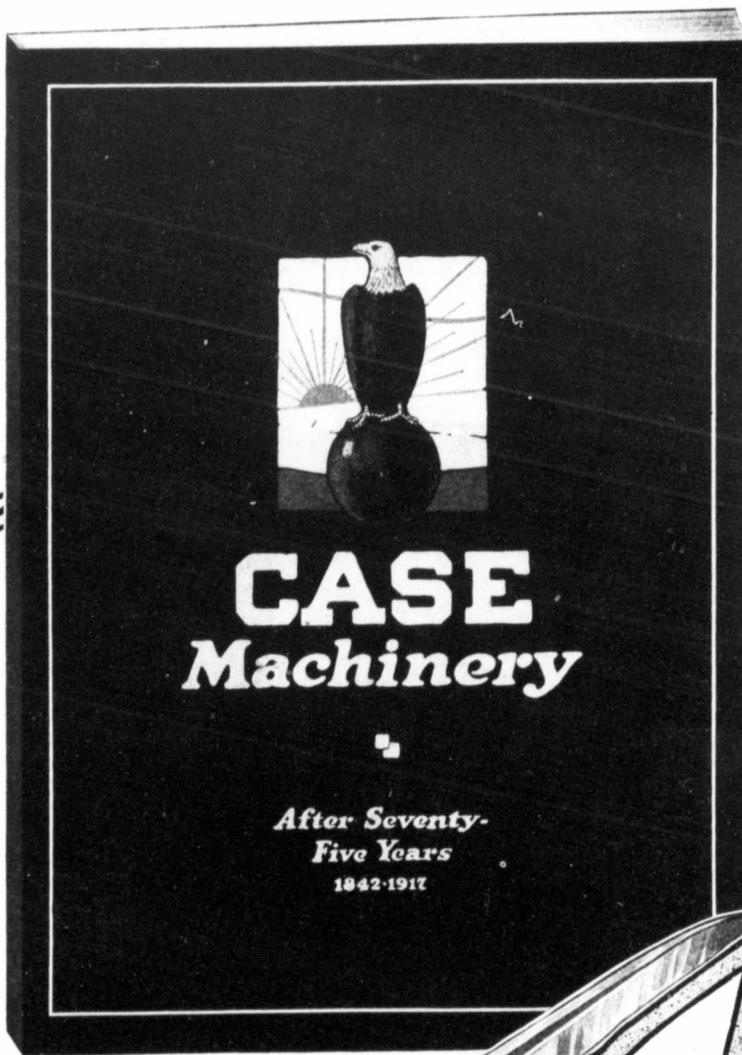
RACINE, WISCONSIN

December, '16

THE CANADIAN THRESHERMAN AND FARMER

The Finest Farm Machinery Catalog Published - FREE

100 Pages



This Book
FREE, Simply
Sign and Mail the
Attached Coupon

A hand is shown holding a pair of scissors, cutting a coupon from the page. The coupon is a triangular shape with a decorative border. It contains the following text and fields:

J. I. CASE T.
M. COMPANY, Inc.,
RACINE, WIS.
Please send me postpaid a copy
of the 1917 Catalog (75th Anni-
versary Edition)

Name _____
Post Office _____
County _____ State _____ R.F.D. _____



CANADA NEEDS MORE POULTRY. GREAT BRITAIN MORE EGGS

At no time in the history of the Dominion has the necessity for increased production of eggs and poultry been more apparent than at the present time. The demand is unprecedented. This is true whether for export or for home consumption. Consumers generally and even producers themselves are eating more and more eggs. The average per capita consumption of eggs in Canada this year will be greater than ever before.

The market for Canadian eggs and poultry is very firm. Prices to producers are extremely high, but even at these prices trade is increasingly active all over the country. The prospects for a continued demand are very bright. The country is facing a shortage, not only of current receipts, but of Canadian storage stocks as well. So great has been the export demand that we shall be obliged to import to meet our own requirements. Increased production has never rested upon a more secure foundation.

That poultry on the farm are profitable needs no argument. Eggs now rank as a staple article in the products of the farm. Poultry flocks can be increased materially without much additional outlay for buildings and equipment, and the increased labor involved is not such as will bear

heavily upon the time of those charged with the care of the stock. Some object to the present price of feed, but when it is considered that the selling price of the product is from forty to sixty per cent higher than it was two years ago, the margin of profit is such as will compare favorably with that obtainable elsewhere on the farm.

Canadian egg producers have responded well to the call for increased production. The country as a whole which was importing eggs a few years ago, has, in the aggregate, produced more than sufficient for its own requirements this year and last. Between seven and eight million dozen Canadian eggs were exported to Great Britain last year, and as an indication of what is going forward this year, nearly one million dozen were shipped during the first week of October. Yet the supply on the British market is still short, and there is a demand for many millions more. Increased production, more and better poultry, should be the motto of every Canadian farm and homestead.

Canada has all the requisites for the production of a quantity far in excess of her own requirements; and with her favorable climatic conditions can, with proper care and attention, produce quality equal to the best in the world. Only the fringe of production possibilities has been touched up to the present. The Western provinces, with their volumes of cheap feed, are the natural home for the Canadian hen. The bulk of the surplus at the present time comes from the provinces of Ontario and Prince Edward Island. Nova Scotia, New Brunswick and Quebec do not produce sufficient for their own requirements. They must do more; and there is now an opportunity for the Western provinces of Manitoba, Saskatchewan and Alberta to demonstrate to Canada and the Empire as a whole what they can do in this connection in this great hour of trade expansion. The first experimental shipments of eggs from Winnipeg to the British market are either now, or soon will be, on their way, and it is hoped that the increase in production in the Western provinces in the ensuing year will be such as to warrant the opening up of a big trade in this direction.

A TREATISE on the Horse-FREE!

We offer free this book that tells you about many of the diseases afflicting horses and how to treat them.

KENDALL'S SPAVIN CURE

is a safe and reliable remedy. It will cure Kingbone, Splint, and other bony enlargements. It is also a reliable remedy for Curbs, Spavins, Bruises, Cuts and Lameness. It does the work safely and at small expense.

Mr. Carl Anderson, Grand Prairie City, Alta., writes: "Please send me a copy of your *Treatise on the Horse*. I have used Kendall's Spavin Cure for swellings, galls, and all kinds of lameness, and find it a success."

Kendall's Spavin Cure is sold at a uniform price of \$1.00 a bottle, 6 for \$5.00. If you cannot get it or your free book at your local druggist write us

Dr. B. J. Kendall Co., Enosburg Falls, Vermont U.S.A.

Kendall's Horse Insurance 113



Our Best Wish for Christmas



The Clean SKIMMER

is that every member of every farm home reached by this message will have the "time of their lives" in well-earned joy and the satisfaction of having "done their bit" towards the common good. May the oil of real esteem and love lubricate every heart; then all things will run as smoothly and to no less profit than all men who know it have experienced in the

"MAGNET" Cream Separator

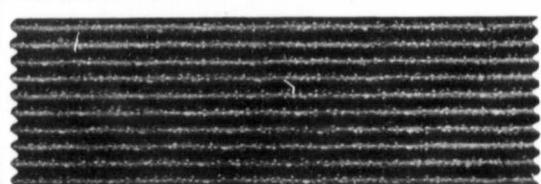
The "MAGNET" is made in Canada by Canadian engineers who have first of all gained their experience on Canadian dairy farms in all essentials to a separating machine that fits in perfectly and economically to every requirement. The result is the "MAGNET" — a separator that more than fulfils the last promise 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.

The Petrie Mfg. Co. Ltd.

Head Office and Factory: Hamilton, Ont.

WINNIPEG, CALGARY, REGINA, VANCOUVER, MONTREAL, ST. JOHN, EDMONTON, LETHBRIDGE



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Metal Siding of various designs and **Corrugated Iron**, galvanized and painted, in sheets suitable for all buildings.

Make very durable, neat and inexpensive coverings for Implement Sheds, Barns, Stables, Granaries and every other building used on the farm.

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The Metal Shingle and Siding Co. of Man., Limited, Winnipeg

Send Booklet on Farm Buildings as advertised.

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Metal Shingle and Siding Co. of Manitoba, Limited WINNIPEG

Holiday Greetings

Our New Year Books giving valuable information about Feeders, Weighers, Loaders and Baggers are just off the press. Send us your name and address and we will mail you one Free.

Hart Grain Weigher Co.
Peoria Illinois, U. S. A.

Alberta "Licks Creation" in 1916

Continued from page 10B
mark has been nearly approached in the 1916 crop just harvested. In one case it and the world's record has been wiped out by one man—C. S. Noble, of Nobleford, who started in just seven years ago.

In 1909 Mr. Noble stepped off at Lethbridge and after taking a spin round the country, he decided to try out some land at a point about 18 miles north-west of the city. He stuck to it, and they called the place "Nobleford." This year he had 1,800 acres under crop. A level "thousand" was

marked off to go in competition with the world and the weights of threshing returns carefully checked at the elevator.

On October 26th his last load was weighed and the number of bushels was 54,395—an average of 54.23 bushels to the acre—and the world's record of 1906 was beaten

by 2,185 bushels, with a new record established to tickle the pulse of others with the strong wine of emulation.

Those seven years of farming experience at Nobleford make a wonderful story. It will be our privilege, we hope, to give it in some detail in January issue.



Dual Purpose Shorthorn Herd. Sedgewick, Alberta, Demonstration Farm

HOW ENGINES LIGHTEN FARM WORK By L. E. DEW

PROBABLY nothing has had a more profound effect upon agriculture during the past decade than the electrification of our farms throughout the country, and the bringing of the gas engine into general use. Old sawmills have been harnessed, and water wheels utilized that have been forgotten for the better part of a century; but even so, according to Uncle Sam's geological engineers, the United States still has 30,000,000 horsepower running to waste every second of the 24 hours in dry weather, and twice that amount during the wet months. This estimate has led to the conclusion that if all the brooks, creeks and rivulets that feed the 1,000-horsepower torrents were harnessed and utilized by means of water wheels, or economically constructed electric plants, the total would amount to 200,000,000 horsepower, or a saving of \$4,000,000,000 annually. It is certainly worth thinking about.

Meantime, the application of the gas engine to agricultural communities is a subject of great interest to inventors; and from all parts of the country come reports of its adaptability, efficiency and economy. Although really only in the beginning of its use, its popularity is spreading with tremendous rapidity, and the little motor seems destined to work almost as much of a revolution for the farmer as did the entrance of mechanical power for the manufacturer.

Its uses are legion. It is the "chore boy" of the farmer and his wife, and never loafs on the job. It pumps water, sharpens tools, grinds feed for the poultry and livestock, besides churning, running the washing machine, wringing the clothes and practically ironing them.

Every farm can find profitable use for gas engine power, even though only an acre or two in size, for one of these little machines even "the size of a pumpkin" is a miracle worker. There is hardly any place where there is work for a man to do that it can not be used to advantage, but it is an especially efficient helper for the owner of the one-man farm, making him less dependent upon hired help. No hand-operated machine can meet this requirement because of the expense of operation, as it takes \$500 a year off the profit of the farm.

During the past summer in

traveling about through six different states, I particularly observed the use of the gas engine on the farm. In New York, for instance, I met a small farmer who had substituted a 4 h.p. engine for a man-of-all-work. He had fitted up a small shop near the house (in reality an abandoned chicken house which just suited the purpose), and in this he had installed a repair room, laundry, an electric lighting plant, a cream separator, a churn and other small machinery, including an ice cream freezer and tool sharpener, all of which were run by a four horsepower engine.

To get electricity he had installed a generator of two kilowatts capacity, with a storage battery which lights the house,

barn and grounds, besides furnishing enough current to operate fans, flatirons, sewing machine and mechanical milker. The cost of the current thus generated, he said, never exceeded 10 cents a kilowatt hour, a figure that compares favorably with what the city dweller has to pay the central station. With the shop near the well, the same engine also pumps the water and delivers it to all parts of the farm buildings. And even should the same engine prove too small to do all this work, it costs very little to buy enough small units to take care of the various odd jobs for which power is frequently needed.

In Rockford, Ill., I watched with interest the use of three engines on the farm I visited. A

few years ago this farmer started with horses and men as his only source of power, the same as his neighbors. To-day, he practically runs his farm with the aid of the motors, a 2½ horsepower, 6 h.p. and an 18 h.p. With a tractor in the field, he finds it easy and more profitable to dispense with surplus horses and use fewer hired men. The small engine pumps all the water, does the washing and wringing of clothes, saws the wood, grinds the tools and does all the "chore boy" jobs. The 6 h.p. engine runs the corn dump, and helps out on the small engine when it is overtaxed. While I was there, the 6 h.p. was converted into a tractor, in order more easily to take it to various jobs the farmer wanted to do, and it proved a great success. The big engine was also used to fill the silo and to run a feed mill. It has ground thousands of bushels of feed for the cattle.

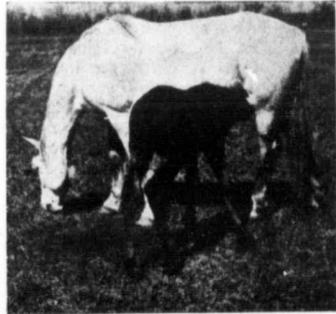
Another farmer-poultryman in Michigan where I stopped over two days, uses his 6 h.p. engine to run a small silage cutter, a meat chopper and a bone grinder. I kept an accurate record while there of its uses, and the work accomplished. Among other things, 84 loads of pole wood were sawed, each load averaging three-quarters of a cord, in 15 hours and 55 minutes! Only 4½ gallons of gasoline were used to run the engine.

The gas engine is especially useful on the fruit farm, if equipped with a spraying outfit, which is needed for every 10-acre orchard. The time when spraying must be done is limited, as we all know from experience, and a delay of a day or so may save or lose a crop worth thousands of dollars. Poultry farmers all acknowledge it to be indispensable in the grinding of bone, and preparing the feed for their flocks, while many market gardeners all through the humid belt, particularly, circumvent the weather and overcome the handicap of long drouths by means of overhead irrigation. Without the gas engine this would not be possible.

In parts of the country where there is much tile draining to be done, special gas engine driven ditchers are coming into use. A 15 h.p. engine will dig 20 rods of trench a day for 36-inch tile, at a fuel cost of \$5. With human

Continued on page 44





IN BLACK AND WHITE

Our Guarantee

Foaline is sold under the guarantee that the money paid for it will be refunded if the foal from the mare treated contracts Navel Disease and Joint Ill "Foaline Laboratory of Canada"

<p><i>FOALINE given to the Pregnant Mare for sixty days before she is due to foal PREVENTS NAVEL DISEASE and Joint ILL In the FOAL</i></p>	<p>FREE BOOKLET FOALINE LABORATORY OF CANADA WINNIPEG Please send Booklet on Navel Disease and Joint Ill. Name..... Address.....</p>
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FOALINE LABORATORY OF CANADA
Winnipeg, Canada.

MARKETING SERVICES For Saskatchewan Farmers

CO-OPERATIVE DAIRYING IN SASKATCHEWAN

The Dairy Branch of the Department of Agriculture has built up a splendid market for dairy products for Saskatchewan farmers. In 1916 more than nine thousand farmers supplied cream to the 17 co-operative creameries operated by the Dairy Branch, which manufactured over 2,500,000 pounds of butter. The Dairy Branch also grades and markets export butter manufactured by privately operated creameries in Saskatchewan.

EXPRESS CHARGES PAID

These creameries provide a cash market for all the cream the farmers of Saskatchewan can produce. Express on cream is all paid at the creameries and any farmer with railway facilities may share in the market which the creameries afford.

CREAMERY PROGRESS

The development of the co-operative creameries is shown by the following figures:

Year	Creameries	Patrons	Butter Mfd. Pounds
1907	4	213	66,246
1909	6	876	324,404
1911	9	1,596	703,583
1913	11	2,681	850,525
1915	15	5,979	2,012,401
1916	17	9,200	2,500,000

PRICE ACCORDING TO QUALITY

Saskatchewan co-operative creameries buy cream on a quality basis and pay a bonus for the best product. This enables them to make butter of superior quality. All export butter is graded and commands high prices. It pays farmers who produce the best grade of cream to sell it to a co-operative creamery.

Patrons of co-operative creameries do not pay profits to unnecessary middlemen.

CO-OPERATIVE CREAMERIES IN SASKATCHEWAN

Co-operative creameries in Saskatchewan are located at

Birch Hills	Langenburg	Regina
Canora	Lloydminster	Shellbrook
Cudworth	Melfort	Tantallon
Fiske	Melville	Unity
Kerrobert	Moosomin	Wadena
Lanigan	Oxbow	

For further information write to the Dairy Commissioner, Department of Agriculture, Regina, Sask.

LIVE STOCK FOR SALE ON CREDIT TERMS

Three years ago the Saskatchewan Legislature passed a law providing for the expenditure of \$500,000 in purchasing live stock to be sold on credit terms to Saskatchewan farmers.

STOCK SUPPLIED

The classes of stock supplied consist of pure bred bulls of the right type and of suitable age for breeding, grade cows of popular breeds, pure bred boars and rams and grade sows and ewes. Deliveries begin in May.

TERMS

Purchasers able to pay cash are required to do so and all purchasers must pay at least 25 per cent cash. Unpaid balances are payable in one or two instalments with interest at 6 per cent per annum. Up to \$400 worth of stock can be bought by paying one-quarter cash and up to \$1,000 worth can be bought by paying one-half cash.

WHO MAY APPLY

Bona fide farmers in Saskatchewan who are members of agricultural societies, grain growers' associations, co-operative associations and shareholders or patrons of creamery companies are eligible to receive assistance in this connection.

ACCOMPLISHMENTS

Under this act 1,834 head of cattle, including 235 pure bred bulls, have already been sold to Saskatchewan farmers. Sheep to the number of 5,275 have also been supplied. During the fall season, when stock shipments from the prairies are most numerous, the Department maintains an experienced cattleman in Winnipeg to make purchases for Saskatchewan farmers who desire his assistance.

APPLICATIONS FOR 1917

The Live Stock Commissioner expects a larger demand for all kinds of live stock in 1917 and applications are now being received. Saskatchewan farmers interested in this question may obtain full particulars from the Live Stock Commissioner, Department of Agriculture, Regina, Sask.

COMMUNITY BREEDING, BEEF RINGS, ETC.

Bulletin No. 42, which may be obtained free on request, contains valuable information on these topics.

MARKETING LIVE STOCK, POULTRY, WOOL, ETC.

The first step towards improving present conditions of marketing live stock will be taken when those with less than a carload of animals for sale get together and sell co-operatively. Co-operative Live Stock Marketing Associations have been organized at many places in Saskatchewan and have saved money for their members. Full particulars re organizing are contained in Bulletin No. 41, which may be obtained free upon request.

WOOL

Co-operative marketing of wool has been carried on in Saskatchewan by the Co-operative Branch of the Department since 1914, with gratifying results, as shown by the following figures:

Year	Pounds Handled	Average Price
1914	69,404	16c
1915	150,328	25c
1916	176,556	32 1-3c

About half its value is paid to farmers as soon as the wool is received and the balance is sent when it is sold. By reducing handling charges and eliminating unnecessary middlemen's profits this method of selling wool resulted greatly to the advantage of the growers. This service will be available to Saskatchewan farmers in 1917.

POULTRY

Co-operative marketing of poultry is available for Saskatchewan farmers again this year through poultry marketing stations in operation at Saskatoon and Regina. In this way 14½ tons of poultry were marketed in 1915. Birds received alive are killed, plucked, packed and graded according to market requirements. Advance payments are made when the birds are received and when the poultry is sold the balance, less cost of handling, is remitted to the producers. This marketing service does not increase the price to the consumer, but puts the profits in the pockets of the producers, where they belong.

Full particulars may be obtained from the Director of Co-operative Organization, Department of Agriculture, Regina, Sask.

Do not miss the BIG CONVENTION for LIVE STOCK MEN at the AGRICULTURAL COLLEGE, SASKATOON, January 9-12, 1917

When Writing Be Sure to Mention that you Saw this Announcement in The Canadian Thresherman and Farmer.

The Art of Blacksmithing

As applied to the trade

No. 8 FORGING OPERATIONS Definitions

The operation of shaping or forming metal by hammering or pressing is termed forging. The process of stretching a piece of metal in one or more directions, either by hammering or by pressure, is called drawing. In the blacksmith shop, the term always indicates a decrease in the area of cross-section of the piece with a corresponding increase in its length or breadth.

By the term bending is usually meant the turning or forming of the iron in such a manner as to deflect it from a straight line. The finished product may be a curved or an angular piece.

In the operation of twisting an iron bar, the fibres are wound around each other spirally. No change in the direction of the axis of the piece takes place. The cut shows a hook that has the straight portion between the eye and the hook twisted. Upsetting is the operation of increasing the thickness of a piece of iron by shortening it. Forming refers particularly to the process of giving a desired form or shape to a piece of metal by hammering, or

will therefore be drawn most readily in a direction at right angles to the length of the anvil. If the piece is to be drawn lengthwise it should be laid across the anvil as shown in Fig. 2a; if it is to be drawn sidewise it should



Fig. 3.

be held as shown in Fig. 2b. The drawing may be done by holding the work across the horn of the anvil, the sharper curve causes the metal to flow more freely than on the face, but it is more liable to cause irregularities in the shape. When the work is to be straightened, it should be laid lengthwise, as shown in Fig. 2b, because the anvil is straight in this direction.

Round Drawing

Drawing a bar of round iron out to a smaller diameter is one of the easiest forms of drawing. The portion to be drawn is marked with soapstone, and then heated carefully to the highest temperature it will stand without injury. It is then taken from the fire, quickly brought to the anvil, and hammered rapidly. The diameter may be reduced by two methods, first by keeping it as nearly round as possible during the entire process, and second by

drawing it to a square, then to a round. By the first method the piece is turned a little after each blow and kept as nearly round as possible, and finished with the hand hammer or with a swage, as shown in cut. A second heat is sometimes necessary. It is well to turn the piece from left to right, and then from right to left, because turning it always in the same direction is liable to twist the fibres. By this method the iron is very liable to split. To avoid this, the second method is often preferred, the piece being drawn from a round to a square, then to an octagon, and finally finished to a round of the required diameter.

Square Drawing

In round drawing, the iron is turned a very little at a time, so as to bring all points under the hammer. In square drawing, however, the iron must always be turned either one-quarter or half-way round. This requires some practice, as the least variation in the amount of the turn will bring the piece out of square. In drawing a square bar down to one having a smaller section of the same shape, the sides of the original bar help to guide the hand in making the proper amount of turn, but if a round bar is to be drawn down to one square in section, the amount of turn must be entirely governed by the hand and the eye.

In drawing down a square bar to a square of smaller size the piece is heated and brought to the anvil, holding one of the sides down flat and striking blows squarely on the top side, drawing it down along its entire length. It is then revolved one-quarter of

a turn and the top side hammered until the piece is about square; the opposite side is then turned up and hammered; and finally the last side is brought under the hammer. The cuts show the order in which the sides are brought under the hammer. This method of turning the work lessens the liability of getting the piece twisted or diamond-shaped, as shown in Fig. 4b. If it becomes twisted in this way, it should be held as in Fig. 4b, and struck in the direction shown. If desired, the piece can be finished

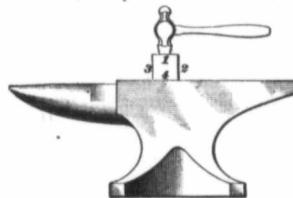


Fig. 4a

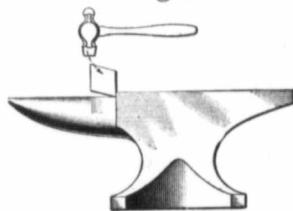


Fig. 4b

under the flatter; in this case, it is held on the anvil lengthwise and the flatter held against the upper face parallel to the face of the anvil, while the helper strikes a few light blows.

Bending

The character of the bending operations done on an anvil depends on the shape of the section of the piece to be worked—whether it is round, square, hexagonal, oblong, or of other shape and on the size of the section. For instance, the operation of bending a square bar is very different from the operation of bending a wide but thin plate, having the same area of cross-section, to the same shape.

To be continued next month

"I earn \$2 a day at home"

You may say that, too—if you want more income. Easy to learn. Steady work at home (8 1/2 year round). Write Auto-Knitter Hosiery (Canada) Co., Ltd. Dept. 311 P., 27 College St., Toronto.

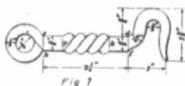


Fig. 1

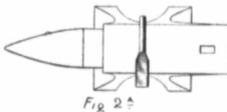


Fig. 2a

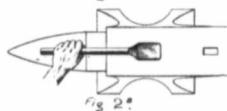


Fig. 2b

by means of specially formed dies between which or into which the metal is pressed or hammered. Welding is the process of uniting two pieces of metal into one solid piece by heating them to a welding heat and hammering or pressing them together. For wrought iron, a white heat is necessary to soften the metal so that it will weld.

Examples of Forging—Drawing

Position of Work on Anvil.—

In all work on the anvil, it must be remembered that the anvil is crowned crosswise, and the metal

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NICHOLS & SHEPARD COMPANY threshing machinery is perfect in design and construction, built of the best material obtainable, by careful experienced workmen, under close supervision, **right down to the last bolt**,---machinery of which the owner must be proud.

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NICHOLS & SHEPARD CO.

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THRESHING MACHINERY

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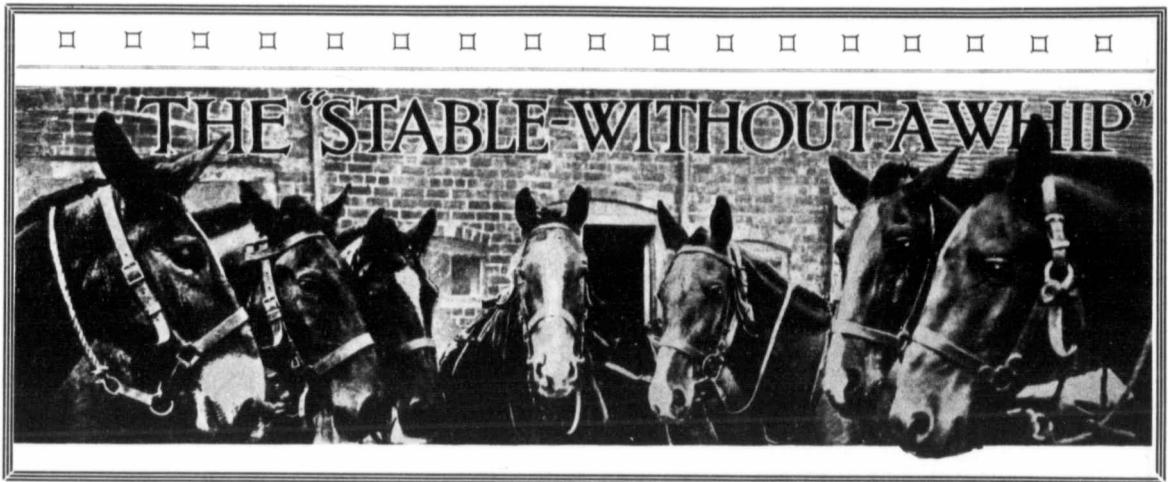
BATTLE CREEK, MICH.

BRANCH HOUSES (With Full Stock of Repairs) At

WINNIPEG, MANITOBA

REGINA, SASKATCHEWAN

H. P. NORTON COMPANY, CALGARY, ALBERTA



An army wagon in a large field containing also a fair-sized pond and three "jumps" of varied types and heights; a gate leading to a stable-yard surrounded by a stone wall; a man wearing a loose khaki shirt and riding-breeches; two girls in neat straw hats, with light coats covering their masculine breeches, and revealing gaitered ankles; wide open doors to many loose-boxes, showing heads and backs of chestnut, brown or mud-black color, where horses or mules stand feeding; and on the back of the army wagon a notice, in uneven lettering: "WARNING—Don't take Liberties with the Horses: they are as HUMAN as YOU are."

There, summed up in a single sentence, is the entire scheme and policy of Lieut. Mike Rimington's work, the work of a fearless, daring man, who is saving and taming wild horses or mules for the army—the outlaws of the army, frenzied, savage creatures; terrified by mistreatment; the worst rakes in England, four-legged creatures, driven to fury by blows, kicks, whips. Naturally high strung and full of nerves, dumb animals become terrified under brutal treatment, and in their terror grow savage. The grooms are kicked to death, harness is thrown off, a horse bolts for miles—and the end is a bullet in the brain of an undeserving victim.

That is where Lieut. Rimington steps in. "Don't shoot them!" he says. "Send them to me; I'll tame them," and he is as good as his word. To Underdale Hall Stables, near Shrewsbury, they are sent—the riff-raff of the army horses that have killed men, mules that twenty men cannot hold, and are put in stocks to be shod; crazy, shaggy, wild-eyed creatures, escorted by terrified grooms. And then a man with a cigarette between his lips, spurless, leads them into the Stable-

Without-a-Whip, the place where they may grow normal again. Since January, 1916, under the Remount Department, this work has been going on, a labor of love and infinite patience. In that rough field, in those stables, the Gospel of Kindness is preached by a man who knows and loves these four-legged outlaws better than his own flesh and blood.

Twenty at a time, not more. There is not space; and one man cannot deal with a larger number. Each fresh arrival demands and receives his undivided care; for no helper can approach these rebels till Lieut. Rimington has begun to teach them they are among friends. After a few days, when a newcomer ceases to kick furiously at every foot-step, part of the work is taken off Lieut. Rimington's hands. But the actual taming and training is his doing; and to him these animals owe their lives—while ratepayers benefit by the saving of these horses.

It is all a question of confidence between horse and man, so Lieut. Rimington argues. If a horse is wild, it is through the faults or mistakes of man. Perhaps somebody who is afraid has to approach a horse, and his first overture is a bang with a heavy stick. Why? Sheer ignorance and ignorant fear. That horse retaliates with a kick; and so it goes on till a valuable, harmless animal becomes so wild that no man dare go near him, and the only solution is death. How unfair it is, and how valuable, in every sense, is the work of saving and reclaiming these so-called "criminals." When they arrive, unapproachable, they are turned into the big field, to talk to the animals already there. Lieut. Rimington had an old mare—the wildest of the wild—who became as gentle as a lamb, and she used to "mother" the

newcomers. She told them, one hopes, that here was a human being who understood. Learning proved slow and difficult; but in the Stable-Without-a-Whip patience is unlimited. To walk among these outlaws, realizing they are all there because they are hopeless—murderers, some of them—and to see no sticks, no spurs, no cruelty—that is a wonderful, enviable thing.

Nothing but kind hands and kind words. The ejaculation "Whoa! Whoa!"—in itself an ugly fear-inspiring sound—is never heard. Instead, the soothing words, "That's-all-right; that's-all-right!" repeated in tones of great confidence, seem to exercise a magical effect on restive, savage horses. It is part of Lieut. Rimington's policy to talk to his "patients" constantly; and it is an education to hear him call out "All the winners! The 'ole—the 'ole—the 'ole boy! What a day!" and the animals seem to enjoy his own high spirits.

This man stands behind them for hours, while they kick, and he dodges flying hoofs, till they learn that he has nothing to fear from them and they have nothing to fear from him. To cure a horse of kicking, his motto is "Let it kick!" and a savage strike is stopped at its worst by a firm hand, which seizes the leg, and surprises the horse beyond belief. Thus, a strike becomes a handshake; and from a big pocket out comes a handful of "love" commonly known as oats. In the same way, if a horse is a rearer, it is made to rear, and, like children and other human beings, the animal ceases to want what it is made, and even forced, to do. Such is the curriculum at the Stable-Without-a-Whip, which I was privileged to inspect the other day.

The army wagon is very use-

ful. Out in the yard harness is put on S'Nice, a peaceful mule—once the maddest of the mad—and Crippen, a wild horse sent there because he killed a groom. Now Crippen objects to the feeling of a wagon at his heels, side by side with S'Nice, the bad horse and the obedient mule are made to work together. Lieut. Rimington gathers up the reins; the girl groom standing behind him jangles the iron brake at his command, and off goes Crippen, like a lunatic, any way but the right way, with good old S'Nice jogging along like a martyr, doing his share of schoolmastering.

"Halt!" shouts the man on the box, after a few seconds of bumping Hades. Like a shot those creatures pull up. Over and over again this is repeated, till at last Crippen starts properly, instead of tearing away, and one day's lesson is at an end. Off comes the harness; the gate is opened. "Go and get a drink, Crippen," says his master, and away trots that savage animal to the trough. . . . In the field two one-time unmanageable horses are being jumped, side by side; the last jump is over wire—a thin, straight line, that is the most difficult thing in the world to see and clear and means a bad smash if it is missed. When one says that Lieut. Rimington has jumped a savage mule over this wire, and intends to hunt on mule-back this winter, his contention that mules should be extensively, if not exclusively, used for gunnery, seems founded on good fact. . . . To describe, in a few paragraphs, the work of reclamation going on in this countryside rescue-home is out of the question. Enough that it is humane and human, and that the dumb tortured creatures find themselves in paradise when sent to the Stable-Without-a-Whip.

Margaret Chute.

“Second to None”



- Blenheim—1704
- Ramillies—1706
- Oudenarde—1708
- Malplaquet—1709
- Waterloo—1815
- Balaklava—1854
- St. Quentin—1914

“Greys, Gallant Greys! I am Sixty-one years old, and if I were young again I should be proud to be in your ranks.” LORD CLYDE

**Manitoba Hard Wheat is the Greatest
Of the Earth's Cereal Products--And**

“GOLD DROP”

Is The Best Flour Made From “Manitoba Hard”

By sustained character and indomitable fighting quality the “Scots Greys” won the proud regimental slogan they continue to hold. “Second to None” has never been grudged the gallant “Greys,” and for the same reason—its matchless record on the battlefields of commerce—the farmers’ own Echo Milling Company has earned for its “Gold Drop” brand of flour the same distinction among all competitive wheat flours.

“GOLD DROP”

is based on quality first but is sold at the same price at which many inferior brands are offered. Our spot cash method of doing business allows us to offer this dependable flour at a reasonable profit.

Ask for “GOLD DROP” —the Flour
that is Always Good

MANUFACTURED BY

**THE ECHO MILLING CO., GLADSTONE,
MANITOBA**



HOW ENGINES LIGHTEN FARM WORK

L. E. Dew in the Ohio Farmer

Continued from page 38

labor the cost would be nearly prohibitive, whereas, one gas engine can easily do as much in a day as 15 men.

There are a number of things to be considered in the purchase of a gas engine, besides its cost. Chief of these is the amount of power required for the work to be done. It is generally advisable, no matter what style of engine is to be purchased, to buy a unit somewhat larger than may at first appear necessary. The style of engine to be used is determined by the location, and nature of the work to be performed.

If used in a fixed location, for instance, a stationary type should be selected, whereas the portable type and the traction engine must be selected when the engine is for use at various points, and when loads are to be hauled. Selection of a good type is fully as important as the selection of a good make. Attractive paint and high polish, although desirable, are of but little real value. Furthermore, the rated horsepower of an engine is not always a reliable basis for comparison with the actual power it will deliver when put to the test. Many rated at 6 h.p. for example, will hardly have a maximum output of as much as 6 h.p. under regular operating conditions. Others built by reliable manufacturers deliver continually an overload of as much as 20 per cent above the rating. If there is any doubt in your mind, insist upon proofs of the actual brake horsepower.

In placing, select the cleanest, driest and lightest spot obtainable. It is advisable to place the fuel tank outside the building and still better to bury it in the ground. It is then an easy matter to arrange the piping to the

fuel pump of the engine. As far as possible pipe under ground.

Small engine-driven generator sets are mostly employed by gasoline engines, either directly or belt connected to a generator with a storage battery auxiliary is usually provided. The varieties of these generating plants vary greatly, although some are designed and built in a rather crude manner. They are, nevertheless, in great demand as they give satisfactory service, as regards reliability and cost. The farmer thus secures many advantages of service that would be otherwise denied him.

Teachers of agriculture tell us that if we are to maintain fertility of our soils and make a permanent success of agriculture we must raise more livestock. This may mean more labor, the grinding of feed, shredding of corn fodder, and putting up silage. Here, then, is where the gas engine of larger power, from 10 to 15 h.p., either stationary or mounted on trucks, may be used to advantage. It is thus easily moved from place to place, and can also be used in threshing grain, sawing wood and any other use where power may be required.

Like His Dad

A story is told of two Irish farmers who had not seen each other for a long time, and who met at a fair. They had a lot of things to tell each other.

"Shure, it's married Oi am," said Murphy.

"You don't tell me so," said Moran.

"Fai' yes," said Murphy, "and Oi've got a foine healthy boy, which the neighbors say is the very pitur' o' me."

Moran looked for a moment at Murphy whom he did not consider to be remarkable for his good looks, and then said:

"Ah, well, what's the harm so long as the child's healthy."



Australian Officer (who has been watching the storming of the opposite hill by the Australians): "Sergeant, call the Signaller. There's a light flashing every now and again over on the hill there like a heliograph, and I can't make head or tail of it."

Sergeant: "Oh, that's all right, sir. It's probably only Bill Watts. He's mended the seat of his pants with a jam-tin."

The World's Best Piano \$475.00



Made in Canada

\$450.00 in Mahogany

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Heintzman & Co. Style "A"

NEW ART

Piano

OUR MOST POPULAR

SPECIALLY BUILT FOR THE WESTERN TRADE
IN FUMED OAK

Write to-day for FREE handsome illustrated catalogue and particulars of prices and terms.

The World's Best in Your Home This Christmas

In the Heintzman & Co. Piano the tone is as permanent as it is beautiful, and it is accompanied by a touch equally distinctive for its delicacy and percussion.

The moderate price of the Heintzman & Co., its perfect tone and touch, its wonderful durability, all combine to make it

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SPECIAL BARGAINS

Now offered at extremely low prices for rapid clearance. Only a few given below.

EASY TERMS ARRANGED

Heintzman Co., Upright Grand Piano—Art satin finish, mahogany case, full Boston, full board, automatic, 3 pedals, full grand scale, Wessel, Nichol and Gross action, which is brass flanged throughout. Has an elegant tone; used about one year. Special bargain at... **390.00**

Wermwith Upright Piano—Very handsome walnut case, plain design. This instrument has a full metal frame with tri-cord scale, full 7 1-3 octave keyboard, 3 pedals, and up-to-date and modern. Has been out on rental for some time and is a special snap at... **310.00**

Stanley Upright Piano—Polished mahogany case, plain design, with metal frame, overstrung scale, 7 1-3 octave keyboard, 3 pedals, full Boston. Music desk. Special bargain **290.00** price at...

PLAYER PIANOS

Auto Piano, New York Player Piano—Polished mahogany case, plain design, has full metal frame with overstrung scale, 7 1-3 octave keyboard, full 88-note. Very modern; has a lovely rich tone and will give splendid satisfaction. Special bargain at... **525.00**

Mozart Player Piano—In beautiful Louis XV case, polished mahogany finish. Has full metal frame, overstrung scale, 7 1-3 octave keyboard, 88-note action. Will give complete satisfaction. A bargain at... **585.00**

Secondhand Organs—Specially priced from **\$45.00 to \$85.00**, thoroughly repaired and tuned and almost as good as new. Two specials—Bell organ with mirror... **65.00** Thomas—Regular \$140.00. Nearly new. Bargain... **99.00**

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Heintzman & Co. Limited

Saskatchewan's Greatest Music House

The Home of the "World's Best Piano" and the Victrola

Dept. C, 1859 Scarth Street, Regina, Sask.

—WRITE FOR PARTICULARS—

BRANCHES AT SASKATOON AND MOOSE JAW

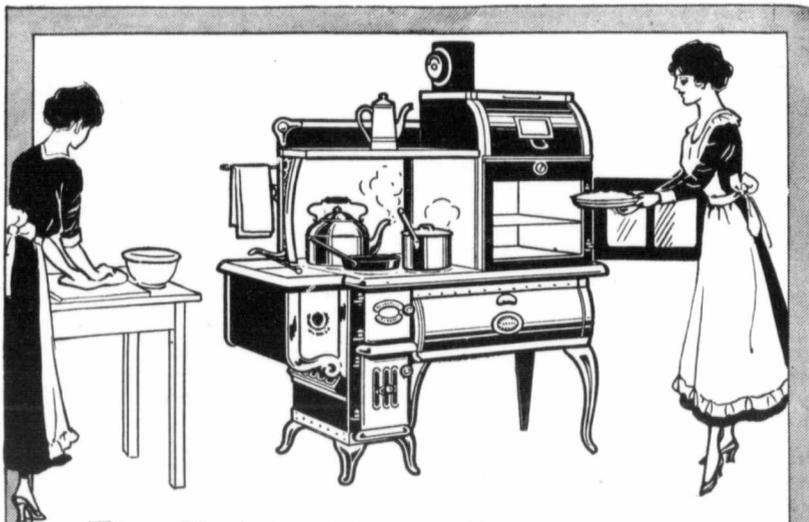
FINISHING LAMBS FOR THE BLOCK

We are glad to reproduce the following matter—portion of a carefully compiled bulletin prepared by J. H. Grisdale, director of Experimental Farms, Ottawa. In view of the increasing interest which is being taken in sheep raising in Western Canada the following particulars are sure to be of service to many of our readers. Further details are in our possession or will be gladly supplied free on application to Mr. Grisdale.—Ed.

On the Dominion Experimental Farms some interesting results have been obtained from a number of experiments in lamb feeding conducted during the last few years.

The large percentage of Canadian lambs are marketed in the fall direct from the pastures. All the lambs from the farmer's flock are usually lifted at the same time, which means that the well finished lambs of good weight must help to sell the light, thin lambs, which may be as well bred but, being late lambs or twin lambs, have not done as well as their flock mates. Well finished lambs of uniform weight invariably command a higher price than mixed lambs varying in size, weight and finish, hence it is always more profitable to hold the lighter lambs and sell only those of uniform weight and finish. Again, the selling of the most of our Canadian lambs during the fall months practically always causes a slump in price. Lambs not required for immediate consumption are held in cold storage to the profit of the wholesaler in view of the usual increase in price of from \$1 to \$3 per hundred pounds between the months of November and April.

When the farmer appreciates these two conditions the lamb trade will be revolutionized and the farmer will finish his work and reap full profits for foodstuffs consumed by and labor expended on his sheep. Many farmers with abundance of roughage can well afford to finish from one to three carloads of lambs during the winter months, thereby making top



The Handy-height Oven makes a world of difference

Here is a big step in Kitchen reform. Ranges with bend-over ovens made tired backs. Just try to count the many, many times dishes have to be lifted in and out of an oven. Count the times one had to stoop to see how things were baking. Modern woman has voted that stooping out of existence. The range of to-day must have a Handy-height oven.

For, a Lighter Day has dawned in the kitchen.

This new coal range has an oven that meets you at standing height. There is no bending over. Once things are placed in the oven they stay there until they are done. You don't bend down from time to time to see how they are doing. You simply watch them through the Clearview Door. Stooping is done away with absolutely. The thermometer, too, is up in plain sight.

And that Clearview Oven Door! Cakes have a far better chance when there is no jarring of the door. Isn't it a fine idea to save the constant disturbing of light cookery?

The Lighter Day Coal Range burns either coal or wood. It has six pot-holes, two of which are fully enclosed. Cooking odors can be kept from floating through the house.

This Lighter Day range is now in thousands of Canadian homes. Over 700 stores carry them in stock.

If you have not yet seen one, you can hardly realize the world of difference a Lighter Day would make in your work. Let us show you as well as we can in our Booklet, "A Lighter Day in the Kitchen." This is a booklet of photos showing a

housewife using the many new labor-saving ideas of this wonderful range.

LIGHTER DAY HIGH OVEN COAL RANGE

Mail the coupon for a free copy.

CLARE BROS. WESTERN LIMITED
Dept. I
WINNIPEG, MAN.

Send free book of photos of Lighter Day Range

Clare Bros. Western Limited
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They are Multiplying fast on the Western Prairie

market prices on the farm produce and a good margin of profit in addition. Realizing the existence of such conditions all over the Dominion, a large amount of investigational work along these lines has been conducted on the Dominion Experimental Farms throughout Canada. Details of this work may be seen in the annual reports; however, a brief summary of the work to date may be timely.

Profits in Winter Feeding Lambs

In the six years' work conducted on the experimental farms' system, the profits on the winter finishing of lambs have ranged from 25 cents per head to \$2.10 per head over the cost of feed. In other words, the experimental farms and stations have purchased unfinished lambs on the open market or from drovers, and, after charging good prices for marketable farm feeds and cost prices for other roughages, have made from 3 to 33 per cent on the investment in the lambs, labor not included. Even allowing a fair margin for labor, this is as profitable a line of feeding work as can be carried on and shows a return on investment greater than is usual in the finishing of steers or shoats.

The class of lamb to buy depends largely on the lambs available and market requirements. Usually, the well-bred lamb showing plenty of constitution and thrift and weighing from 60 to 80 pounds is the best stocker lamb to put into winter quarters. Lambs weighing from 80 to 100 pounds, if thin, may be profitably put in the feed lot for a short finish and if good fall pastures are available this may be as profitable a line of work as any. The finished, heavy lamb weighing from 80 to 110 pounds should never be purchased for feeding purposes. The time when greatest profits can be made in purchasing lambs is usually between the months of August and November. However, the condition of the pastures and of the lambs themselves as well as the markets, will regulate the time for purchase. The proper time to sell the lambs is when they are finished, whether this be November or April or any intervening month. This applies also to the selling of lambs off grass. Finished lambs will make small gains at a very high cost per pound, which cost will usually be far in excess of the market price at that season. In addition to this, the markets are demanding a well-finished lamb, not overdone, and ranging from 85 to 105 pounds live weight, depending upon the breed and season of the year. This, of course, does not apply to the young lamb trade of the spring and early summer.

A table in detail shows an average profit over feed—on experimental farms and stations throughout Canada, in the feeding of many carloads of lambs—of \$1.05 per lamb when the spread between buying and selling prices is approximately \$1.70. Since the spread between buying and selling prices has exceeded this amount during the past two years, and promises a still further rise during the next two years, one is safe in anticipating a reasonable profit in lamb finishing, in spite of the very high price of lamb at the present time. If this applies to the purchasing of stocker lambs for winter feeding, it would apply doubly to the farmer or shepherd having lambs in an unfinished condition. It is always profitable to finish lambs before putting them on the market.

Feeds for Winter Lamb Finishing

A large number of feeds have been tried in this work, and these may be briefly treated under the four headings: Dry roughages, succulent roughages, grains and mill feeds.

Of the dry roughages, alfalfa hay is an easy leader, closely followed, however, by fine clover hays and fine mixed hays. At the Experimental Station, Lethbridge, Alta., it has been found that alfalfa hay, when properly fed with succulent roughages and grain is worth \$21 per ton for the finishing of lambs. It has also been found that alfalfa hay alone or with meal is less profitable than when succulent roughages, such as roots (turnips and mangels) or green oat sheaves, are also fed. What applies to the rich alfalfa hay also holds true with clover hays. Good quality clover hay is worth from 10 to 50 per cent more in lamb feeding than timothy or similar grass hays. Proving the value of succulent roughages, it was found also that good quality timothy hay plus mangels, gave from 15 to 20 per cent more profitable gains than clover hay alone. A hay made from peas and oats, well cured, will produce satisfactory gains but at least 10 per cent less profitable than alfalfa or clover or a mixture of these with oat sheaves.

Peter Thompson went to visit his son in Montreal. It was his first visit to the city, and the young man showed him all the sights, concluding with an ascent of Mount Royal. In a burst of enthusiasm young Thompson said: "See, father, isn't it wonderful down there!"

"Well," said the father, "if it's so wonderful down there, what did you drag me up here for?"



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<p>Fancy Linens Tray cloths, centrepieces and table centres. Open drawn work, embroidered and lace finish. Xmas special 50c</p>	<p>EXTRAORDINARY BARGAIN Ladies' Dainty Handkerchiefs in lawn, linen, voile and madras. Prettily embroidered, white or colored edges, plain or fancy borders. Three handkerchiefs, encased in a fancy holly box. Xmas special 50c ORDER EARLY</p>	

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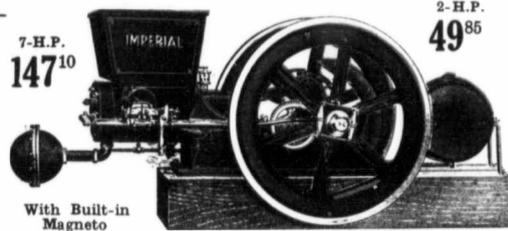
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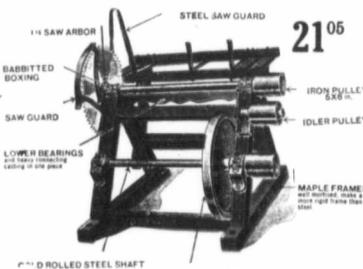
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This "Imperial" Low Down Grinder is of low price and highly satisfactory construction. Low frame of one-piece construction, big hopper, long heavy boxings, flat reversible burrs. Read all about it in our Gas Engine Book.



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THE T. EATON CO LIMITED WINNIPEG - CANADA

SEND FOR OUR GASOLINE ENGINE BOOK

PRODUCE MORE EGGS

By F. C. ELFORD, Dominion Poultry Husbandman

Canada wants eggs and more eggs. Never were the prospects for a bigger demand and better prices more promising than right now.

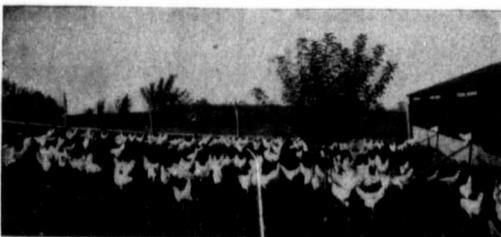
In spite of this, with the cost of grain high and the prices for poultry meat good, the tendency will be for farmers and poultrymen to sell stock that should produce the high-priced eggs this winter. The fear is that eggs cannot be produced at a profit, but, though a good price can be obtained for the meat at present and high prices will have to be paid for the feed, eggs will be correspondingly high and eggs can be produced at a profit even with

the high prices of grain, if proper conditions are supplied.

Cost to Produce a Dozen Eggs

Last winter at the experimental farm a pen of 100 pullets whose per cent egg yield by months ranged from 5 per cent in November to 50 per cent in April, an average of 27 per cent for the six months, produced eggs at a cost of 24c. per dozen. The percentage of egg yield determines more than anything else the cost of production, for instance, when the egg yield was 20 per cent the cost was 21c. per dozen, and at 40 per cent yield the cost was only 10 1/2c. per dozen.

This pen was selected as it was



At Christmas Time

—the time of charity and goodwill—it is well to bear in mind that true charity "begins at home."

No form of beneficence can be so far-reaching in its effects as the provision of Life Insurance. It is "the living pledge of a deathless love."

The Automatic Endowment Policy of The Great-West Life Assurance Company offers ideal Insurance. Protection is secured at lowest rates, yet the payment of life-long premiums is avoided. An Endowment is secured, yet without the heavy cost of the regular Endowment Plan.

Take advantage of the leisure of the Christmas Season to look into this vital question of Life Insurance. Your request for information will have prompt attention, without undue solicitation to insure.

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are making history for Canada in the fact that they are a **distinctively Western Canadian Product**. For all that is expected of an overall, that is at once strong, roomy and conveniently supplied with pockets, etc., they are known and valued above all others by farmers and threshermen.

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The "MASTER MECHANIC" Overall is made in Winnipeg to suit Western Conditions. It is built for Wear and Solid Comfort—Every Garment Backed by our Money Back Guarantee.

Demand The Best---The "Master Mechanic"---and accept nothing else.

Western King Manfg Co. Ltd. McDermot Ave. at Kate St. WINNIPEG MAN.

thought to be equal in production to an average farm flock. The average dozen eggs sold for 20c. more than the cost of feed required to produce it.

Each hen gave 99c. over cost of feed in the six months, which, though not large, shows that even at the high price of feed, eggs can be produced at a profit. The prices paid for grain were local Ottawa prices and were high. The price received for the eggs was 44c. per dozen. This was not as high as the local market and no higher than many farmers obtained during the same time. But the farmer in addition might cut down cost, for he has table scraps, milk and other feeds that may be used which were not available here. To make a profit this year, business methods must be adopted and a few suggestions that may help follow.

Kill All Non-Producers

Keep only the best pullets for eggs and the best year-old hens for breeding. For good chicks must be produced next spring as well as eggs this winter.

More than ever will it be advisable to get rid of everything that does not produce. Market pullets not matured enough to start laying before early winter. Sell all the hens that are more than two

years old, also all cockerels that are not intended for breeding purposes. If the cockerels can be kept until later and well fed, a bigger price will be obtained, but better sell all now than take up space required by the early pullets.

Housing

See that the house into which the birds go is suitable. Have plenty of sunlight and fresh air. Keep all draughts out and be sure it is dry. See that the front of the house, from eighteen to twenty inches above the floor, has glass and cotton, one-third glass to two-thirds cotton. Make these windows so that they can be opened up every day if desired. Shut up all holes in every part of the house that might cause a draught. Double line the north side so as to give the hens greater protection while on roosts. If the house is inclined to be damp more ventilation helps. It is also a good plan to put in a straw loft. If this cannot be arranged, because of the nature of the roof, tack slats below the rafters then stuff straw in between. See that the house is perfectly clean and free from mites, then get the pullets in at once.

Do not overcrowd. Give an average of five square feet of floor

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space to each bird of the heavy varieties and four to the lighter or Leghorn type. If there are too many pullets for the available space cull out the poorer ones. Fifty pullets with sufficient accommodation will give more eggs than sixty in crowded quarters.

Feeding

The question of feed is the hardest one to solve this year, be-

cause practically all feeds are high. It will pay to feed the pullets well from the start, though the hens might be fed more lightly till the middle of January. Where possible, use feeds grown on the farm. Good wheat screenings, shrunken wheat, barley, oats or buckwheat, all make suitable feed. Clover and milk cover a multitude of feeds and cut down the cost.

Continued next month

Value of Music in the Home.

Christmas is the time of all seasons for music in every farm home. From time immemorial music has been associated with the thought of Christmas. The voices of the Angels heralded the advent of the first Christmas, and down through the ages have come to us the beautiful Christmas musical carols, without which Christmas would not be the same. Make this the happiest Christmas you have ever had, through the gift of music that is never wholly dead even in the most wooded souled of God's creatures.

A musical Christmas is a "Merry Christmas." With music in the home on Christmas Day it means happiness and memories, dreams of to-morrow, and song and dance. Without music the home is but a roofed-in corner of the world; with it, it is all the world. Don't simply wish your family a "Merry Christmas," make it merry for them by the gift of music, as music is part of

the attention is focussed on the right kind of music, brings with it a general refinement of the tastes and the disposition. As a result the whole personality is developed in ways that exercise a magnetic influence over those with whom one comes into intimate contact. Without fully knowing why, people regard men and women thus developed as "likeable" persons. Consequently they are favorably disposed to them, which in itself is an important factor in the winning of success.

But observe that the music selected for purposes of training must be carefully chosen. So influential is music in shaping the character and the sentiments that a child habitually subjected to music of an inferior sort may develop traits the reverse of likeable and therefore harmful to the child's progress in adult life.

Finally, the mere fact that the appreciation of good music is a source of great pleasure contributes directly to success

THE LAY OF THE HEN THAT LAYS

An egg a day the old hen lays, with which the housewife blithely pays for books and clothes and children's shoes, and Grange and Farmers' Union dues. The old hen pays the rooster's board, she buys the gas to run the Ford; she even buys the old man's cud, and still he meets her with a thud, if in the feed box she should stray, or roost upon his new mown hay. She buys the soap to clean the kids, the sugar and the family lida; she's up the fir - one in the morn, she's out and hustling in the corn before the old man chucks his snores to call the boys to do the chores. She's always happy at her work, no one can say that she's a shirk. She don't belong to any club, believes in paying for her grub. She does her work and doesn't care how others comb or curl their hair. She lives to serve and serves to live, gets all she can, is free to give of what the good Lord gives to her. A message from the hen to you is that there are but very few so thoughtless for their own reward, and few who sing and work so hard to make this old world a fit place to live in for the human race.

the early education of every child, and cultivates the finer qualities, and the study of piano playing teaches them to appreciate good music.

The love of music is Nature's priceless blessing to mankind, and the gift of music brings joy to both giver and recipient. Christmas means radiance of good cheer and rejoicing, and the children's happiness depends on the parents to make this Xmas "Children's Day" through the gift of music.

Training in music should form part of the early education of every child. Even if he be not taught how to play some musical instrument, he should at least be trained to an intelligent understanding and appreciation of good music.

This for two reasons. He will thereby be put in possession of a source of great pleasure in later years. And in addition his musical training will really help him to achieve success in whatever vocation he selects for his life work.

Musical training, moreover, provided

For, as people cannot be too often reminded, anything that creates pleasurable mental states affects favorably the physical health through stimulating the bodily organs to function more effectively. And the healthier a man is the better he can do his work, whether his work be manual or mental.

Every parent, then, will be serving the best interests of his children if he sees to it that their training in the appreciation of good music begins at an early date. He can do much in this regard by the simple process of buying a phonograph and some well-chosen records. This will cost him some money, but it will be money splendidly spent.

Nor will the resultant benefits be confined to his children. He, too, being subjected to the developmental influences of good music, will find his powers for work enlarged and his life made happier. There is no period of life when appreciation of music cannot be cultivated to advantage.



Give Your Family New Joy and Life This Christmas

CHRISTMAS with its radiance of good cheer, and rejoicing will soon be here. You can give to every member of your family a Christmas gift that will add joy, love and life to your home; that will brighten the lives of the little ones and cultivate their finer qualities.

Give your children an opportunity to study music properly. They cannot get the proper touch on an organ. There is no home music like that of the piano. Make this Christmas Children's Day. Their happiness depends on you.

The wonderful sweetness and power of tone of the

Williams Piano
New Scale
ENDORSED BY GREAT MUSICIANS

make it the choice of master musicians and music lovers everywhere. Their expressed preference should influence you in favor of a New Scale Williams.

Send **to-day** for our beautiful portfolio of models so you'll be sure to have this gift in time for Christmas. Just a little of your Christmas money now will put a piano in your home on Christmas Eve. Write **AT ONCE** for special Christmas offer. Address Dept. C.T.

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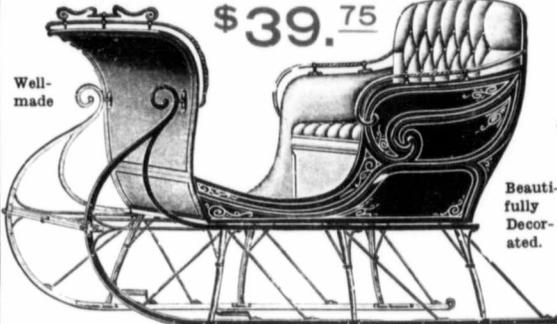
Make yourself and family happy during the long Winter evenings
\$13.75



We show here a wonderful value in a Talking Machine. Has a wonderful tone, case is finished in a beautiful golden oak; is 14 ins. x 14 ins. square and 6 ins. high. Will play any size record, and we offer it for quick sale. Regular price \$20.00. Now special **\$13.75**

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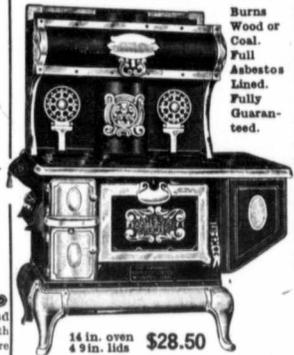


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14 in. oven **\$28.50**

18 in. Oven, Six 9 in. Lids. Complete with High Closet and Reservoir **\$31.00**
 Extra large oven, bakes to perfection. Body is made of Wellsville polished steel and the nickelled parts are high silver nickel. Has four or six lids, high closets, long front danger, push feed and is full asbestos lined. A range to last a life-time. Order No. 9018. Price **\$31.00**



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The Lamp that creates the greatest candle power. A Lamp that will give you a steady 60-Candle Power white light every night for one month for 15 cents. It is twice as bright as an ordinary No. 2 central draft burner, three times as bright as gas light; and four times as bright as an ordinary electric light, at a fraction of the cost. Absolutely safe and odorless. Requires little cleaning. You cannot possibly get more lamp value at any price. Height, 26 inches. Price **\$5.50**

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THE FARMERS SUPPLY CO. LTD. 179 BANNATYNE AVE. E. WINNIPEG
 DEPT. 122

Seamanship For the Farm.

Continued from page 12

rope round an animal's neck, or in pulling a person from a hole or from the water by a rope under the armpits.

Take the end of the rope, A, in the right hand, and with the standing part, B, in the left hand lay A over B; with the left hand turn a bight, C, or the standing part over A, and then lead A round the standing part, B, down through the bight, C, again, and pull taut. The bight, C, is sometimes called a cuckold's neck.

Running Bowline, Fig. 5—The landsman would call this a slip knot, and it is an ideal knot for such purposes; it slips freely, and cannot jam or unfasten. It is made the same as the bowline, except that an extra loop is created at the beginning for the bowline to run upon. It will hold tight and unfasten easily when you want it to.

Hitches

Half Hitch, Fig. 6—Hitching a rope is performed by passing the end, A, round the standing part, B, and then returning it through the bight, C, and back to the standing part at B. The parts A and B may be lashed together, or another half hitch may be made above the first, as shown in Fig. 7,

which is called two half hitches, forming a very secure fastening and probably the one most frequently used. Fig. 8 represents a round turn and two half hitches, in which the extra turn of the rope, A, round the object relieves the strain on the hitches and thus prevents their jamming against the object and becoming difficult to cast off.

Figure 9 shows a half hitch round a timber and is used as a temporary lashing where there is no great strain and where the timber could not fall if the hitch slipped.

Clove Hitch, Fig. 10—This is another form of two half hitches and a very useful fastening. The greater the strain becomes, the stronger the hitch holds to its purchase.

Timber Hitch, Fig. 11—This is made by passing the end of a rope round a timber or pole and taking several turns round its own part. It becomes taut as soon as the strain is applied and will not slip; yet it may be instantly removed. It is used chiefly in handling heavy timbers, logs and poles where the strain is constant and of short duration and where a more intricate hitch would consume too much time in making and casting off.

THAT YOU LEE, OLD SPORT?
 Mail me another thousand of My Own
CIGARS
 "If the people would take me SERIOUSLY for once, let me say that the particular cigar you have had the courage to name the "CHARLES CHAPLIN" is the greatest smoke I have ever struck. Bought by the box through your mail service, it is the best high-class tobacco value I know of."
 And the "smoke" referred to by the immortal "CHARLIE" is mailed all charges prepaid to your P.O. (Havana filled in Sumatra wrapper) for
\$1.75 Box of 25. \$3.50 Box of 50
THOMAS LEE, Maker of High-Class Havana Cigars
 Established 1886. 187 Sutherland Ave., Winnipeg

Blackwall Hitch, Fig. 12—This is for temporary use in pulling from a hook.

Bill Hitch, Fig. 13, may be substituted; it is a trifle more secure.

Cat's Paw, Fig. 14, is absolutely secure and is obtained thus: Lay the end of a rope over the standing part, forming a bight or loop; take one side of the bight in the right hand and the opposite side of the bight in the

left hand, turn them outward three times and then slip the two loops over the hook.

Rope Knots
Single Bend, Fig. 15—This is useful in fastening rope traces to the hames, since it is easily adjusted to meet any variation in the length of a trace, and is instantly removable. It is sometimes called a becket bend or a weaver's hitch.

Fisherman's Bend, Fig. 16—This is in the nature of a permanent lashing and is noted for its security. Sailors use it for bending a hawser to the ring of an anchor and for other important work that must withstand great strains and likelihood of chafing. It is similar to the round turn shown in Figure 8, except that the first half hitch is taken through, the turn and the second half hitch round the standing part.

Rope Strap or Sling, Fig. 17—This is made by splicing together the ends of a short piece of rope and is used for obtaining a purchase or fastening on such an unwieldy object as a large crate or case.

Sheepshank, Fig. 18—This is used for shortening a piece of rope in the middle and is formed by half-hitching the standing parts, A, round the bights B.

Wall Knot, Fig. 19—This is a neat way to end a rope and keep it from fraying, or to knot a rope that must be kept from passing through a hole or sheave. In appearance it looks difficult to form, but such is not the case. Unlay the strands of a rope for about twelve inches and with the strand A form a loop, holding it by the left thumb to the side of the rope at B. Pass the end of the next strand, C, round the strand A, the end of the strand D, round the strand C and through the loop which was first made by the strand A; pull all three strands taut and the knots will appear as in Fig. 20. To crown this knot, Fig. 21, lay one of the ends, A, over the top of the wall, lay the second end, B, over A, lay the third end, C, over B and through the loop formed by A; haul them taut, and the crown will appear as in Fig. 22. For a neat finish, tuck the ends of the strands under an adjoining strand, and then trim them off with a knife.

CARE OF THE CALF MEANS A GOOD COW.

If we are ready to admit that a cow's milk is too good for a cow's calf and that it is economically profitable to rob the future cow for the sake of present gains, then it is quite necessary to know how to raise calves on separator milk or other artificial and unnatural foods.

The usual practice is to pour separator milk, sometimes cold, into a large trough which is never cleaned, and allow the calves to drink until they are satisfied. This method means pot-bellied, runty calves that never make the growth that they should, even though they fortunately escape the ravages of indigestion.

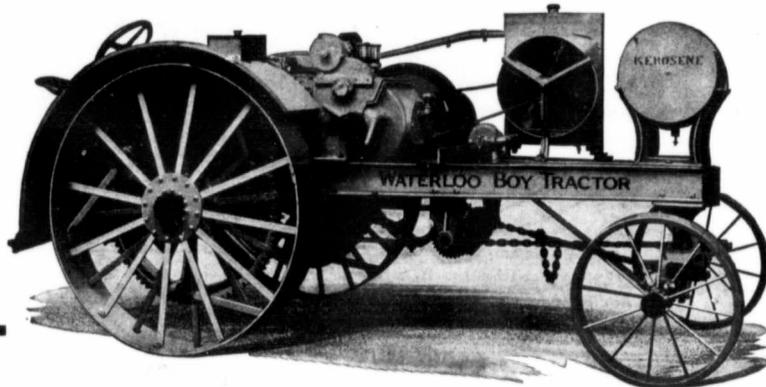
Calves should not be given quite enough milk to satisfy

their appetites. Each calf should be fed separately, carefully regulating the amount of milk by the size of the calf. The fat that has been removed by the separator may in a way be supplied by adding a handful of corn meal, or flaxseed meal to each bucket of milk. After drinking the milk, the calf will be kept busy eating the meal instead of sucking another calf's ears. The milk should always be warm but never given to the calf directly from the separator, when it is frothy.

The milk buckets should be taken to the milkhouse or kitchen and sterilized at least once a day. Calves will soon begin to eat a little hay and grain, like ground oats, should thereafter constitute part of the food ration.

If it pays to raise calves at all, it pays to feed and care for them from the day they are born.

Farm sanitation is the all important thing in the care of livestock on the farm.



THE IDEAL TRACTOR FOR YOU

A Tested Machine Built by a Reliable, Substantial, and Permanent firm of Successful Machinists

WATERLOO BOY

Kerosene One-Man Tractor

How It Is Built—

Weight only 4,800 pounds.
 Brake test 24 h.p., draw bar 12 h.p.
 It is a kerosene tractor, built especially to operate on this fuel. No makeshift attachments.
 It has twin cylinders, cast en bloc.
 Ignition—high tension Dixie magneto with impulse starter.
 Cooling system is of the most approved type.
 Will turn in a 25-foot radius, and when plowing is self-steering.
 Economical on fuel. Easy to operate.
 All working parts are very accessible and easily kept in perfect adjustment.
 Transmission—sliding gear with shifts for one speed forward and one reverse.

What Users Say—

Viewfield Farm, Oak Bluff, Man., Oct. 28, 1916.
 I, Tholmet, Esq.,
 Manager, Gasoline Engine & Supply Co., Winnipeg
 Dear Sir: I have pleasure in stating that the Waterloo Boy Tractor has given me every satisfaction.
 I have ploughed 50 acres at a cost of about 45 cents per acre—I have also cultivated about 350 acres summerfallow at a cost of about 16 cents per acre.
 The tractor has also operated a 24-inch Geiser separator satisfactorily. I consider that this tractor is a necessity on a fairly large farm.
 Perhaps the most important point is its lightness in weight. It does not depress the summerfallow half an inch, which is very satisfactory. In heavy tractors the great wheels leave a hollow which the cultivator teeth cannot reach to properly do their work.
 My ploughing was done with a Jno. Deere three-furrow 14-inch gang—the cultivating with an International Harvester and Sylvester cultivator. I have done the cultivating and ploughing myself, as well as the threshing (operating both engine and separator). I consider it very important that a farmer be able to do so much work with an engine in view of the present shortage of labor.
 I shall be pleased to give a demonstration of the engine at any convenient time.
 Yours faithfully, (Signed) J. W. ANDERSON.

What It Will Do—

The Waterloo Boy will pull a light engine gang with three 14-inch plows in stubble any depth you wish. It will pull two 14-inch plows in any prairie breaking. It will handle on summerfallow a disc with harrows behind at from 2 1/2 to 3 miles per hour. It will drive a 24-46 threeher with all attachments at a capacity of 700 bushels of wheat to 1,400 bushels of oats per day. The Waterloo Boy Tractor performs this work with efficiency and economy that will please any practical farmer. It is a sensible, practical machine that sells at a price you can easily afford; built by a company with an established reputation, and numerous machines at work in the fields of Western Canada to-day.

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OUR YOUNG CONDUCTED BY Cousin Doris. FOLK

THERE IS A SANTA CLAUS
By Frederick Brueger

Bess Parker said the other day,
"There isn't no Santa Claus!"
But I don't care what she does say,
I know there is—just 'cause

She said that my own Pa and Ma
Did trim my Christmas tree.
"Tain't true," I said, and she said
"Pshaw!
Just you stay up and see!"

So Christmas Eve I shut my eyes
An' pr'tended quick to sleep—
I don't think pr'tendings are real lies,
An' no one said, "Don't peep!"

Bimeby I got out of my bed
An' hid upon the stair;
I heard 'most everything they said,
An' saw the tree was there.

Ma said, "Old Santa's good this year;
This is our finest tree."
An' Pa said, kissing her, "My dear,
What's Santa got for me?"

An' Ma just laughed and said, "You wait
Till I see what is mine!"
Then Pa he teased an' said, "It's great!
Ain't Christmas time just fine!"

Right then I knowed, if they talked so,
There is a Santa Claus!
An' if Bess Parker does say "No!"
I'll never care—just 'cause!

WISHES THAT CAME TRUE
By Elizabeth Hayes

This is how a brown, bare Log wished
and wished for something, and how
the wonderful wish came true.

This brown, bare Log lay out in an open
field. It was once a beautiful tree, but
now it was ugly and in the way, and felt
that it would never be of any more use.

But there were so many things it loved
out in the open field. It loved the bright
Sun that shone on it and warmed it.
Every day that the Sun looked lovingly
down the Log would whisper,
"Sun so bright,
Could I give a light,
I'd help you shine with all my
might."

The Log loved the sparkling Stars and
wished that, like them, it could brighten
up the night-time. Every night that
they twinkled down, the Log would say
up to them,
"Just to be like you
With work to do,
Lighting the Earth when the Sun
is through."

It loved the red and gold Sunset, and
as it looked at the beautiful colors would
waf'th the wish,
"Oh that I may
Leave my bed of clay
To help make lovely the end
of day."

The Log loved the Flowers growing out
of the warm Earth, and it loved the Earth
that held them. It would whisper to
the Flowers growing near,
"Could I help you bloom
With your sweet perfume,
The world would know little of
sorrow or gloom."

The Log loved the Birds and would say
as they flew by,
"Birds on the wing,
Could I only sing,
What joy and love I would help
you bring!"

One day—it was the day before Thank-
sgiving—a Man came with an axe on

his shoulder. He saw the brown Log and
stopped.

"The very thing I want," he said.
He swung his axe again and again, and
in a short time the Log was cut into pieces.
Then the Man took the pieces in his
arms and carried them home.

All at once the Log was sorry. It was
leaving the Sun and the Stars, the Sunset,
the Flowers and the Birds, and it didn't
know where it was going. The Man
put it in his house in a dark place where
it was lonely and things were strange.

Then night came. The Man made a
fire and placed the pieces of Log upon it
and called the little children to come and
eat pop corn and roast apples. They danced
delightedly around the fire, saying,
"Oh, what a nice warm fire! It is bright
and warm like the Sun. Thanksgiving
evening is the loveliest part of Thank-
sgiving Day."

The Log heard and was so happy that
it leaped up. The children jumped and
shouted, "Look at the sparks going up,
just like hundreds of little Stars."

This made the Log so glad that it tried
to sing, and the children cried, "Listen,
it sounds like a bird."

Then the flame and the sparks died out,
and the song stopped. There was nothing
left but red and yellow coals.

Then the children stopped dancing and
jumping and shouting, and sitting down
in front of the coals, said softly, "How
beautiful! It looks like the Sunset."

But one little girl said, "It looks like
the red poppies that grow in the garden,
and the yellow daisies that grow in the
field."

the Flowers, the Sunset, and so it had
been Thanksgiving Day for the bare,
brown Log as well as for the little childre:
who had been warmed by it.



They watched until the colors faded
out. The Log was now only soft gray
ashes. But the Log had never dreamed
of being so happy. For a while it had
been like the things it loved and wished
to be like—the Sun, the Stars, the Birds,

The next morning the Man said,
"I'll put the ashes in the garden to help
the Flowers grow." And what had been
a brown, bare, unhappy Log was put in
the garden, on the soft, warm Earth
where it would always be of use, and where
it was again with the things that it loved.

SANTA CLAUS CHILDREN
By Lillian Beynon Thomas

Jimmy Martin was standing at the
window looking across the prairie, through
a little hole from which he had scraped
the frost. He could not look long, for his
breath clouded over the hole he had
cleared, and he had to rub the frost off
again. He could see that the heavy grey
clouds that covered the sky were in a bad
humor. They were angry because the
Frost King had told them they must carry
their load of snow all night. But now it
was morning, and the Frost King and the
South Wind were quarreling, and Jimmy
could hear the Frost King, snapping
angrily around the house, and the wind
whistling and sighing.

"The wind is from the south this morn-
ing. It is going to be warmer," he heard
his mother say.

"Vill the Souf wind kill old King Frost?"
Peggy Martin asked. She was Jimmy's
younger sister, and she was struggling
with a long lace that would get into the
wrong holes in her boot.

"Yes, it will drive him away far north,
far, far away, and as soon as he is gone
all the lazy clouds will open their snow
sacks and let the snow drop down to earth."

"And vill the snow come on our house?"
Peggy asked.

"Yes, on everybody's house," Jimmy
said. "It will cover them up."

"Can't anybody get out?" Peggy asked,
giving up the struggle with the lace, and
sitting with a hand on each toe, waiting
for such important information.

"They can dig themselves out if they
have a shovel," Jimmy said, after con-
sidering the proposition.

"Vill it cover the chimbleys?" Peggy
asked.

"Yes, everything," Jimmy said, waving
his arms round in a general way. "It will
cover everything up."

"How vill Santa Claus get in, if the
chimbleys are covered up?" Peggy asked,
her eyes very wide open.

"Santa Claus cannot get her this
year, the snow is too deep," her mother
said.

"Vill he not come at all?" Peggy ques-

Plan to attend one of the SIXTEEN

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IN

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Feb. 19. | HOLLAND—Jan. 8. |
| PLUMAS—Jan. 22. | KILLARNEY—Feb. 19. |
| SOURIS—Jan. 22. | BRANDON—Feb. 19 to Mar. 3. |
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tioned. There was a disappointed and surprised tone in her voice. Her mother turned away, but answered in a low voice, "No, dear, he will not come this year."

Jimmy did not ask any question. He was older, and nine-year-olds on the farm where the crops have failed for three years have no illusions about Santa. He had heard before that there would be no turkey dinner and no presents, and no nuts and candies. He knew that the flour barrel was low, very low, and he knew that the slippers his mother made him and Peggy out of an old pair of cloth trousers of his father, were not made because they were so soft and warm, as his mother said, but because there were no leather ones, and no money to get any.

"I want Santa Claus! I want Santa Claus!" Peggy said; "I hate the snow clouds. I will make the snow stay off the chimney."

Jimmy looked at his mother, and she looked at him. Jimmy and his mother understood each other. When Peggy was not looking Jimmy took an old rag doll that she liked very much, and whispered to his mother: "I will hide this, and on Christmas I will give it to her. Maybe she will have forgotten it before that."

"That is right," his mother said. "It will surprise her."

Jimmy hid the doll and Jimmy's mother tried to think of something to surprise him, for little men of nine years, who have no illusions about Santa Claus, listen to the wind whistling in the chimney, and hear the bells on the reindeers.

That day Jimmy's mother wrote a letter to some friends, whose flour barrel was not so empty, and whose chimney was free for Santa to come down. It hurt her to write the letter, she had said many times she would not write it, and she had to bury something grown-up people call pride, to do it, but looking at Jimmy, her little man child, who was trying so hard to be big and brave, she put her foot down hard on the thing that would have stopped her, and she wrote on.

The clouds emptied their snow on earth, and they kept on emptying for days, until the prairie was covered, and Jimmy's home was almost hidden, and looked like a great big snow bank. Christmas Eve came, and Peggy insisted on hanging up her stockings. Jimmy did not hang his up, but he lay awake a long time, and when Peggy was asleep, he got up and put her old rag doll in her's, and then he climbed back into bed and went to sleep at once.

He had not been asleep long when he heard a queer rustling in the room. He thought it was summertime, and a bird was pounding on the window. Then he thought he heard bells, and he sat up in bed. There was no chimney in his room, but the queer noise was at the window. He looked and looked, and he saw a big fat man with a white muffer round his throat standing just inside of the window.

"Who are you?" Jimmy whispered.

The man did not speak, but he motioned toward Jimmy's stockings, and pointed at Peggy's. Jimmy understood what he wanted, but he did not believe in Santa Claus. The man motioned again, real hard, as if he were angry, and Jimmy, afraid but happy, jumped out of bed and got his stockings, and hung them up beside Peggy's, and then he climbed back into bed, and did not look, for Santa Claus never leaves things for little people who watch for him. Jimmy heard bells ringing, and a great tramping on the roof, and people talking; he guessed it was the people who were helping Santa Claus, and then it was morning, and he heard Peggy scream.

Peggy's stockings were full, and so were Jimmy's, full of the very things he wanted, and then there were nuts and candies and at dinner some roast beef that was almost as good as turkey, and plum pudding, and everything that nine-year-olds in the country can think of on Christmas Day. His mother and father were happy, happier than they had been for a long time, and Peggy, tired out with joy, went to sleep in the afternoon with her old rag doll in her arms, and Jimmy stood at the window and looked out through a hole from which he had scraped the frost. The sun was shining on the snow and made it look like millions and millions of diamonds.

Jimmy looked from the window toward his mother, and said shyly, "Mother, there is a Santa Claus, isn't there?"

"Yes, darling, there certainly is," his mother said.

"I heard him on the roof last night," Jimmy said, with shining eyes, "and mother, I saw him in my room. He motioned to me to put up my stockings, and I did."

"Did you like what was in them?" his mother asked.

"Yes, awfully, and, mother, I am glad there is a Santa and the crops don't matter."



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OUR WOMEN FOLK

CONDUCTED BY
PEARL RICHMOND HAMILTON

THEY'RE WINNERS ALL

(By Peter Lion in Bibby's Annual)
He shall be wise
Whose will is firmly fixed on good;
Yet who, when ignorance deceives,
Doth sometimes trip and fall,
He only falls to rise,
Each time the stronger in resolve
That wisdom—the pearl of greatest price—
Shall still be won!
And though its cost be truly great
In sacrifice,
That man is wise,
And he shall win.
He shall be strong
Who, daily, undismayed, toils on,
Fearless of pain or sorrow,
Born of wrong,
Who does his best, and fails as oft,
Yet, scornful discouragement,
At night doth face each day's mistakes,
And re-determines he will do
A better best to-morrow! True,
That man grows strong,
He's bound to win.

He shall be free
Who, when fast bound by errors' chain,
Still dares to trust his God!
And waiteth patiently,
Then cheer, O heart distressed!
Earth's darkest night can ne'er withstand
The gentle dawning of the morn!
Soon shall a new day break for thee,
And in its light and gladness
Thou shalt go free!
Wait, then, and win.

All reach the goal
Who closely watch their guiding star,
And swerving ne'er to right or left,
Press onward to the end,
Life's path at times seems long
And drear to every soul;
But those who steadily pursue that path
With faith and purpose firm,
Despite the trials which befall,
I say they're winners all!
They'll reach the goal.

Everywhere, everywhere, Christmas to-night—
Christmas in lands of the fir tree and pine,
Christmas in lands of palm trees and vine,
Christmas where snow-peaks stand solemn
and white,
Christmas where cornfields lie sunny and
bright—
Everywhere, everywhere, Christmas to-night.

Christmas where children are hopeful and
gay,
Christmas where old men are patient and
gray,
Christmas where peace like a dove in its
flight,
Broods o'er brave men in the thick of the
fight—
Everywhere, everywhere, Christmas to-night.

For the Christ-child who comes is the Master
of all,
No palace too great, no cottage too small;
The angels who welcome Him sing from
the height,
"In the city of David a King in his
might"—
Everywhere, everywhere, Christmas to-night.

Then let every heart keep its Christmas
within—
Christ's pity for sorrow, Christ's hatred
of sin,
Christ's care for the weakest, Christ's
courage for right;
Christ's dread of the darkness, Christ's
love of the light—
Everywhere, everywhere, Christmas to-night.
—Phillips Brooks.

VICTORY OVER CIRCUMSTANCES

(Eleanor M. Warren in Bibby's Annual)
We often hear dissatisfied people blaming circumstances or environment for their colorless or otherwise disappointing lives; for their inability to fulfil their ideals; to gather happiness for themselves, or to radiate it upon others.
But in reality, external conditions have no power to limit our happiness, beyond that with which we ourselves invest them. It is our attitude that makes the whole difference: whether we elect to be slaves or masters.
In a book of one of our great modern thinkers occurs a beautiful allegory in which man is represented as being challenged to battle by Satan—Good, disguised in the form of Evil—and though putting up a valiant fight, being slain by his great opponent again and again, and

it is said, that "the pains which he endured in one body were powers he wielded in the next, until at length he stood in a perfect invulnerable body," exultant with pride and joy. Then Satan, assuming his true form, and all his fearsomeness vanishing, said to his erstwhile adversary, "I love thee," and bore him up and up until they stood together in Paradise.

We have much time to learn from that allegory: for one thing, not to sit down cravenly under our troubles and difficulties—which are just opportunities for us to grow stronger—but to accept the challenge fearlessly in the full confidence that we can win through in the long run. And again, to look ever for the good that underlies all appearance of evil, both in events and human personalities, until at last it comes forth to bless us, as it surely will.

We need never for a moment pity ourselves as being helpless victims of circumstances; temporary sufferers we may be, but always possessed of the power to triumph in that secret source of infinite strength which is the divine life in each soul.

We have all helped to shape our environment, and we can begin to better it as soon as we will, by letting the Light within us cast its halo of love around.

The slights, or other unkindnesses that we fancy people may have shown us, or the sharp temper of someone we live with, has most probably been encouraged to manifest in our presence by our own negative qualities. Or perhaps the grievance is that we have so few friends. Is it not that the beautiful soul qualities that draw great love from others are as yet awaiting development in us? Or again, we have a mind that adores the beautiful, and we are condemned, we say, to pass our lives among such unpleasing surroundings.

Well, if this be the case, depend upon it we are not yet ready for the external manifestation of beauty for which we are so pining, for it will come to us directly we are.

Let us content ourselves for a little while with tenderly nurturing the embryo of true beauty in the heart, and to help its unfolding, and shed all the beauty we can upon other lives, instead of searching for it so earnestly for ourselves. For many, whilst stooping in that search for personal gratification, have missed the sunset glory that was shining around them.

Indeed, the possibility of happiness lies with all of us, but as the first step towards its possession we need to know that our destiny is in our own keeping and that we have within ourselves the power to lift that nightmare of being slaves to the circumstances that surround us.



Here is the Answer

Just now when you are wondering how best to solve your Christmas gift problems, let us send you the best possible answer — OUR 1917 CATALOGUE. You will find it just as safe and satisfactory to choose from it as if you bought in person, and you will get better quality at closer prices than you could secure buying in any other way.

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Can you conceive of anything easier, safer, saner, more sure to be satisfactory?

Your name on a postcard will be sufficient—send it NOW.

D. R. Dingwall, Limited
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WINNIPEG

Mother's Corner

A MOTHER'S PRAYER

"I thank Thee, Lord, for my great joy,
and deep

I feel the favor I have found with
Heaven,
And all my prayer is, may I blameless keep
This precious life which Thou to me
hast given."

"Yet we trust that somehow good
will be the final goal of ill."—Tennyson.

"Ring out old shapes of foul disease,
Ring out the narrowing lust of gold;
Ring out the thousand wars of old,
Ring in the thousand years of peace."

HUMAN RESPONSIBILITY IN RELATION TO OUR CHILDREN

A Christmas Plea

Nature does not yield a good crop from damaged seed. Public opinion is alarmed at the rapid multiplication of the unfit. The steadily increasing proportion of deaf and blind, cripples, lunatics and other defectives constitute an ever increasing charge upon the national resources. When to this burden is added a falling birth-rate and a high death rate among children, the government as guardian of the national well-being must take steps to rectify and safeguard infant life and maternity.

Anyone who visits institutions and sees the terrible effects of venereal diseases in the lives of innocent little children cannot fail to realize the terrible results of sex irresponsibility. There, where we see these poor little children, we behold the awfulness of those things which the

habits, customs and false ideals of civilization (?) allow. "The enormous financial loss brought about by the maintenance and treatment of the army of derelicts due to sexual impurity, is a mere trifle compared with the loss to the community in effective power, in intellectual and moral tone, vigor and initiative, to say nothing of the absence of the actual contribution which these people should be making to the general sum of social prosperity. To this latter count should also be added the definite lack of vigor, charm, and brain-power to those children, who are 'born tired' and feeble because their parents have not understood the necessity of chastity, and the sacredness of the parental responsibility if sound, healthy children are to be produced. Such is a small hint of the ever-growing tal. of woe and increasing responsibilities which stand to the credit of the prostitution of those high creative powers associated with sex, which are necessary to the calling of the little child, the master of the future, into being. The harvest of suffering, disease and deformity which Nature imposes on those who transgress her law is ample proof of the right and wrong."

I quote the above from an English writer who desired to emphasize the enormous responsibility of our nation's need—child culture and the sacred privilege of parenthood. In our own city I have passed up and down the aisles of the maternity rescue homes and looked down into the cots where innocent babes lay unconsciously sleeping away the only happy period of their lives. My heart bleeds at the sight of the little ones and I turn away saying: "Children, children, everywhere, and not a father to one." Then I go to the mothers—poor betrayed girls of fourteen, fifteen, sixteen, seventeen years old—girls, hollow-eyed and helpless facing a future dark, oh, so very, very dark, ever asking the question—whither shall I go?

Last week an eighteen year old girl came to me from a country place—a girl who has lost all sense of self-respect—and I ask—"Who is responsible for such loss of femininity?" At this Christmas season I offer a prayer of gratitude for the Salvation Army—the only Protestant organization I know who stand at the door with outstretched hands to welcome the girl who is crushed under the social heel of heartless humanity. There is a picture of Christ who has before Him a wretched woman. An excited crowd commands her to be stoned. Beautiful beyond expression is the picture of mercy on His face and in His manner as He answers: "He that is without sin among you—let him cast the first stone." As they depart one by one and He is left alone with the woman, He turns to the poor sobbing creature and says: "Neither do I condemn thee; go and sin no more." Here shines forth the true spirit of the Lord of Compassion. She was no power to Him, but a lost soul to be put on the right way. Let us remember this year this beautiful picture of Christ and when we are ready to throw social stones at the poor betrayed girl, think of the words of the Master of Christmas—"He that is without sin among you, let him cast the first stone"—and then let us turn to the girl and say in tones that come from a heart of sincerity: "Neither do I condemn thee; go and sin no more." "Peace on earth, goodwill toward men." "The crooked shall be made straight, and the rough ways made smooth."

"He hath sent me to heal the broken-hearted, to preach deliverance to the captives, and recovering of sight to the blind, to set at liberty them that are bruised, to preach the acceptable year of the Lord."

In the Image of God

I quote the following from an article entitled Child Culture, in Bibby's Annual: "Why does such a very large percentage of the human race so insistently demand from the sex relationship that which Nature seems sternly to forbid, as can be seen from the harvest of suffering, disease, and deformity, which she imposes on those who transgress her law? Religions of all races and times have ever taught that man has a very high destiny awaiting him; and, undoubtedly, modern science, if unconsciously, partially endorses this teaching by those discoveries which offer to human control and guidance ever more and more of the vast forces of Nature. There is perhaps no better summary of this lofty destiny than is contained in the words of the Christian



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a hearty
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CHRISTMAS MAKING
(From Miller)

scripture: 'So God created man in His own image.' Perhaps, if we look into the heart of these words and consider them in relation to human life and organization, we may be better able to understand the problem with which we are confronted.

Unthinking familiarity with potent words tends to hide from us the deeper meaning they enshrine. Quite naturally the word 'image' is usually interpreted in terms of form only, very much on the lines of the mere reflexion of one solid body upon the smooth surface of another. Now, the nature of both God and man requires an interpretation in terms of life as well as form. However fully the word image suggests that the human form constitutes a divine reflexion, here it equally includes all human life and power as an essential part of that reflexion, so that man, throughout his whole nature—body, soul and spirit—constitutes a living replica of his Divine Master. It follows, therefore, that man, formed in the image of his Creator, is himself

an embryo creator. When we come to consider the trend of all human activities, what are they when at their best but creations? What more exact description can be given of the world than that it is a gigantic school for the training of creators, in which the students of varying proficiency, under the penalty of a fundamental necessity, or the inducement of pleasurable reward, must learn to create on the physical, mental and spiritual planes? Does not their success depend upon how far their creative activity is employed in accordance with the great laws of Nature? And what are Nature's laws but the principles laid down by the Master Creator for the guidance of His students?"

So God created man in his own image.

Glad Indeed

I'm glad you're studying metaphysics in school this year!
I'm not taking it—have simply been exposed!

"God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life." Christmas thus began in the heart of God. The world did not ask for it—it was God's own thought. We love him because he first loved us. All the love that warms and brightens this old earth was kindled from the one heavenly lamp that was lighted the first Christmas night. The Child that was born that first Christmas was the Son of God. God so loved the world that he gave his Son.

Think of the beginning—how small it was. It was only a baby, a baby among the poor. Think where the baby was born—in a stable, with the cattle all about. Think where the baby slept its first sleep,—in a little box, out of which

the cattle ate their fodder. All the circumstances were lowly and homely on the earth side.

Think what the problem of Christmas was. The mission of the Christ-Child was to change the sin and sorrow of earth into the holiness and the joy of heaven. Earth was very unlike heaven that night. It was a place of selfishness, of cruelty, of strife, of sin, of wrong, of oppression, of sorrow. Millions of men were slaves. There was depravity that reeked to heaven. Governments were tyrannous. Home meant but little. Here and there a few praying souls thought of God, and a few men and women lived pure and gentle lives. But the world was full of sin. Love—of course there was natural love. Mothers loved their children, friend loved friend. But the great multitudes knew nothing of love, as we now understand the word. Love, Christian love, was born that first Christmas night. Love of God, God's own love, a spark of God's life, came down from heaven to earth when Jesus was born. Christina Rossetti puts it thus:—

"Love came down at Christmas,
Love all lovely, love divine;
Love was born at Christmas,
Star and angels gave the sign.

"Love shall be our token,
Love be yours and love be mine,
Love to God and all men,
Love for gift and plea and sign."

It is easy to misunderstand others, even our dearest friends. One may hold a penny before his eye so that it will shut out all the beautiful sky, all the blue and all the stars. It is easy, too, to make little offences grow large as we brood over them, until, held up before our face they hide whole fields of beauty and good in the lives of our friends. An unpleasant word is spoken thoughtlessly by some one and we fret and vex ourselves over it, lying awake all night thinking of it, and by to-morrow it has grown into what seems an unpardonable wrong that our friend has committed against us. But Christ's way is different—he turns the other cheek. He forgives, he forgets, he blots out the record and goes on loving just as before, as if nothing had happened.

The Christmas spirit teaches us to deal in the same way with those who injure us. Life is too short to mind such hurts, which oftentimes are as much woundings of our own pride or self-esteem as real injuries to us. In any case, heavenly love ignores them. One says, "The hurts of friendship, of social life, of household familiarity, must be ignored, got over, forgotten, as are the hurts, the wounds, the bruises, the scratches of bribes or thorns on our bodies."

"Life is too short for aught but high endeavor,
Too short for spite, but long enough for love.

And love lives on forever and forever;
It links the worlds that circle on above;
'Tis God's first law, the universe's lever,
In his vast realm the radiant soul sighs never.

"Life is too short."
If we would make it really Christmas in our own hearts, we must learn to forget ourselves and to think of others. We must stop keeping account of what we have done for other people, and begin to put down in place what other people have done for us. We must cease thinking what others owe to us, and remember

what we owe to them, and that we owe Christ and the world the best we have to give of life and love.

What was the problem? It was for this tiny spark of love to work its way out among men, among the nations, until all the life of the earth should be touched by it, changed, purified, sweetened, softened. This is part of what Jesus meant when he spoke of a woman putting a little morsel of leaven in a great mass of dough, that it might work its way through the whole lump. We have the problem stated in the words of the angels' song, "On earth peace, good-will toward men." That is what the coming of Christ to earth in human flesh was to do—to make peace and to put into all men's hearts good-will.

Of a kindly man it was said that he lived by the side of the road, that he might be among people and have a chance to help them. It is in practical ways that good-will to men shows itself. It does not wait to do large things, but heeds the calls of need as they come, however small they may be. Norman MacLeod writes the lesson into a little creed:—

"I believe in human kindness,
Large amid the sons of men,
Nobler far in willing blindness
Than the censor's keenest ken.
I believe in self-denial,
And its secret throb of joy;
In the love that lives through trial,
Dying not, though death destroy.

"I believe in love renewing
All that sin hath swept away,
Leavenlike its work pursuing
Night by night and day by day;
In the power of its remodelling,
In the grace of its reprieve,
In the glory of beholding
Its perfection—I believe."
The problem of Christmas the night Jesus was born was to set all this good-will to work in the world.

CHRISTMAS CRACKERS

A woman with push can get there, but it takes the woman with character to stay there.

Too many wives predicate their house-keeping on the theory that a meal is anything they can carry home from the delicatessen store.

The bachelor's life frequently demonstrates that as a man sews, so shall he rip.

Trying

"But I'm trying," the young man ventured.
"Very!" his employer agreed.

Would You?

If I knew that a thought of mine
Were outside of love and untrue,
That suffering and pain
Would follow in its train;
I wouldn't think it—would you?

If I knew that a word of mine
Hastily spoken, and not true,
Would sadden one's life
Lead malice or strife,
I wouldn't speak it—would you?

If I knew that an act of mine
Were tinged with error's hue,
That would cause a man
To fall as he ran;
I wouldn't do it—would you?



IMPORTANT

McBean Bros. Advice on Low Grade Wheat

As there is a large quantity of No. 6 and feed wheat grown this year, we feel it our duty to warn the farmers before selling this low-grade grain to send samples and have it graded, as very often wheat that you might think is feed will grade as high as No. 5 and No. 4, and you also want to get the exact value before selling on street or track. It is very important that you follow out these instructions this year. The demand is enormous for all our grain and will continue until another crop is harvested, and we wish to reiterate to you strongly, get into the habit of shipping your own grain, especially this year. It will mean big money to you. Do not sell on any break in prices, as these breaks are only natural reactions on a high-priced market. There is nothing in the market situation to put prices down at any time this year. It is not going to be a question of price, but where the wheat is going to come from to supply the demand. The trade has not yet realized the great shortage all over the world.

We figure our oats are entirely too low and should be 15c. to 20c. per bushel higher, compared with other grains and we strongly advise farmers not to be in any hurry in selling their oats. We also figure that flax will advance to \$3.00 per bushel before another crop is harvested.

We are Commission Merchants and would like a share of your grain this year. Give us a trial, ship your grain to Fort William or Port Arthur; advise McBean Bros., Winnipeg, Man., so that we can look after the grading. We make big advances on each car of grain. Write us any time for market information.

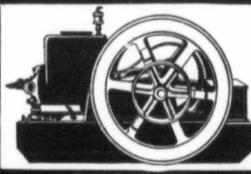
McBEAN BROS.

Grain Exchange

Winnipeg, Man.

Oct. 28th, 1916.

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	Prime Large	Medium	Small	No. 2	No. 3	No. 4
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Red Fox	\$12.00	\$ 8.00	\$ 5.00	\$ 8.00 to 4.00	2.50	1.00
Cross Fox, as to Color	\$50.00-\$20	\$30.00-\$15	\$15.00-\$7	15.00 to 7.00	5.00	2.00

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A Woman's Talk to Women

(By Lillian Beynon Thomas)

A CHRISTMAS MESSAGE

This year I have no message of cheer for my readers. The situation in the world shows none of the silver lining that we are told is always there. Nor do I feel inclined to ask you to look for the bright side. The more I see of war the more I am inclined to believe there is no bright side. War is bad, and the lives of those of us who suffer now, must be spent looking for a cure for this disease of nations.

There is one thing, however, the war has shown us, that must forever silence the pessimists who talk of the good old days, and the heroes who then lived. It is the magnificent bravery of our men. Never was the world blessed with so many men who counted themselves as nothing compared with a principle. Never has the world seen such a spectacle of uncomplaining endurance, and never has the world, and never can the world, see a more magnificent example of self-sacrifice, than during the past two years. With a shout, a laugh, a wave of the hand, the boys march off, into the very jaws of death, and we women who stay at home must needs gird around us the mantle of self-sacrifice or our men folks will have stepped

many years, has been the country to which suffragists of this part of the world have looked for arguments in favor of the women. To that country we have not looked in vain. The women have assisted in getting much advanced legislation, but they are not yet satisfied, and the struggle still goes on.

Over the women have not yet the right to sit in parliament, and at the present time they are realizing the need of having women in the governing body. The questions on which they have been roused as never before are prostitution, venereal disease, and drink.

The government is determined to vest the powers, concerning these matters in the Governor, under an order-in-council and to this the women and the reform element in the country are opposed. Definite legislation, and effective restriction were asked for, and an association composed chiefly of university women has been formed to watch legislation, and administration. The women feel that such legislation can only be dealt with effectively by women in parliament, and a campaign to have women eligible for parliament will be carried on before the next election.

The Mother On Christmas Eve

By Charlotte Rudyard

O little lad that lies asleep,
The starshine in your hair,
I pray the Christmas saint to keep
Your gladness unaware!

I will be very gay for you,
The whole bright, bitter day;
I know each gallant thing to do,
Each boyish thing to say.

Bravely I've built the Christmas joys
High round your tree, and laid
My woman-tears beneath your toys—
And yet—I am afraid!

O little lad that lies asleep,
The starshine in your hair,
I pray the Christmas saint to keep
Your gladness unaware!

into a higher plane of life than the women who gave them birth.

It was a Major who lay dying. Only five minutes from the call, until the last flickering breath, and in that he said, "I am done, but I did my best for Company B."

The mantle is falling on us. It is the mantle of sacrifice. God give us strength to wrap it closely around our shoulders, and march along with a shout, a laugh, and a gay wave of the hand, into that country, however rough the path, where the gleam lightens the way.

WOMEN OF NEW ZEALAND

New Zealand, the country where woman's suffrage has been in force for

BRITISH COLUMBIA MARCHING ALONG

British Columbia may be west, far west, shut out from us by great mountain ranges, but over the mountains comes the sound of the tramp, tramp of progress, as the women of that province march on to new things.

A recent message from there states that the city of Vancouver is appealing to the government, to amend the city charter, so that women may be eligible for the office of mayor and aldermen.

Alberta is the only province in Canada, where the women may hold civic offices, on the same terms as men. In the other provinces, the women are not eligible for the salaried positions, and in some not



Chaplain: "So you've been to the hospital to see your son. It's a sitting up case, isn't it?"
Proud Mother: "Yes, but he made them 'Uns sit up afore they did 'im."

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Height 6 in. Width 5 in.



A beautiful little gilt bronze clock suitable for bedroom. Very ornate in design, a good timekeeper, a premium both useful and ornamental. Free for 450 Royal Crown Soap Wrappers. Postage 10 cents.

The Delta Electric Hand Lamp

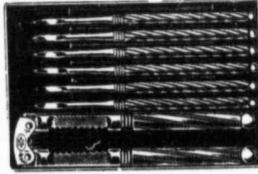


We do not supply the battery

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Laura Nut Crack and Pick Set



This set consists of six picks and one pair of cracks, all made of steel, spiral knurled, nickel plated. Free for 100 Royal Crown Soap Wrappers. Postage 8 cents.

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We have a new and very much improved edition of the 27 inch doll printed in several colors on strong cloth, and when made up the actual size is 27 inches tall. It is so large you can put baby's own clothes on it. With one big doll pattern there are two smaller ones, so, as you can see, you have a family of three. Free for 50 Royal Crown Soap Wrappers.

A SPECIAL PREMIUM Carving Knife and Fork



The handles are ebony wood and will not loosen or crack. The steel, both in the knife and fork, is best tempered and drop forged, highly polished.

The illustration is from an actual photograph, and accurately shows the French design. The knife is 12½ in. long; the fork 10½ in. long.

This Carving Set is free for 200 Royal Crown Soap Wrappers. The supply is limited. Order early.

Our premium list contains many more articles and things you want—merchandise that is good and useful. Just what you would go to the store and spend your good money for. Think of the saving. Send now for this list. It is free, and will come prepaid by mail.

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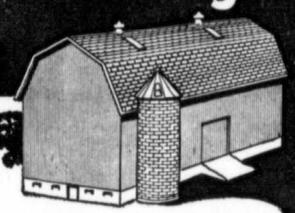
"Eastlake" Shingles
have already stood over 30 years. They make your building safe from fire. Easily laid yet no storm can lift them, no sleet or rain can drive underneath. Fit snug and tight in the valleys. "Eastlake" heavily galvanized shingles are the original and best, their patented features can never be equalled. Get our prices.

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Is fire-proof, neat, easily laid, inexpensive and durable. It saves you insurance, protects the lives of your family—your stock—your goods—from the fire fiend. Our Rock, Brick and Clap-board patterns are sharply embossed and very popular. Write for prices and illustrations.

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Are famous for beauty, sharp embossing, ease in laying and durability. They banish the wall-paper problem and free you from cracked plaster and peeling wall-paper. Quite in-




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797 Notre Dame Avenue, WINNIPEG

even for the school board, which is not a salaried position, and which is open to the women of the west.

Hon. George Langley, Minister of Municipal Affairs for the province of Saskatchewan, has promised the women that at the next session of the legislature in that province, all civic offices will be opened to women on the same terms as men. It was merely an oversight that it was not done before, he claims.

In Manitoba the women are going to ask the legislature to make this change at the next session. It was an oversight of the women that it was not asked for at the time suffrage was granted, and no doubt the members of the government will be quite in favor of taking this step forward. However, their feeling in the matter will be tested at the coming session.

WOMEN PROGRESSING IN SASKATCHEWAN

The Equal Franchise Board of Saskatchewan is running a woman for school trustee in that city. This is the first time that Saskatchewan has come into the lime-light in the woman's movement. It is not known yet whether there will be a contest, but if there is, it will be a good training for the women. By the time this goes to press the matter will be decided, and whichever way it goes, it marks a new era in the history of the women of that city.

Regina

The women of Regina are to be congratulated on the appointment of Miss McLachlan to the position of Superintendent of Delinquent, Neglected and Dependent Children for the province of Saskatchewan. Miss McLachlan has for some years been assistant to the late superintendent, Mr. Spencer Page, and knows the work thoroughly. It was the influence of the organized women that secured her appointment.

Moose Jaw

The women of Moose Jaw in their Equal Franchise Board, have ever been progressive. Many advanced laws have been advocated by them. Recently they protested when two young girls were sentenced to prison, and even appealed

to the government, and it upheld their judgment, in one case, and instead of the girl under sixteen, being sent to a common jail, she was sent to a detention home.

TAKE TWO LOOKS AND A JUMP

Look on the front cover page of this paper at the turned up cuff of the farmer's pants and at the inside cover page. Then, jump over the boundary line down into the United States and keep going south until you stumble upon the busy little metropolis of Wheeling, W. Va. There, close to coal mines, iron foundries, etc., you will find the mill pictured below which began in 1832 to manufacture Stifel's Indigo Cloth. This particular cloth came into exis-

tence at the same time the steam engine made it appearance and the railroad and the steam propelled vessel. And, like these constructive forces, it met a distinct need, and so has kept on growing until, after a lapse of almost a century, it is in service from one end of the continent to the other—the best overall, work shirt and uniform cloth there is—Stifel's Indigo, standard for over 75 years.

Just as you take pride in the pedigreed stock on your farm, you can take pride in pedigreed garments, overalls, work shirts, etc. You need only to wear garments made of it to know that Stifel's Indigo is thoroughbred. It holds its beautiful blue color in sun and rain, perspiration and wash tub have no effect upon it, and it lasts longer than any similar fabric ever put on the market. The real secret of the fastness of the

beautiful blue in Stifel's Indigos and its last-long quality you will find in the mill. It is the kind of dye used—not acids which make the cloth tender, but Pure Vegetable Indigo Dye and a certain method of manufacture which keeps the fibres of the cotton tough and firm and prevents fading or running of the dye.

To enable you—who need good, strong, serviceable work shirts, overalls, etc.—to be able to tell the genuine Stifel's Indigo cloth, the makers have put a little mark on the back of the goods. When you realize that it is the cloth in the garments that gives the wear, you can see the importance of looking for this little boot on the inside of the garment on the back of the cloth before you buy. The little boot guarantees that you get the genuine Stifel's Indigo in every garment, in the one you buy to-day—the one you buy next year or five years hence.



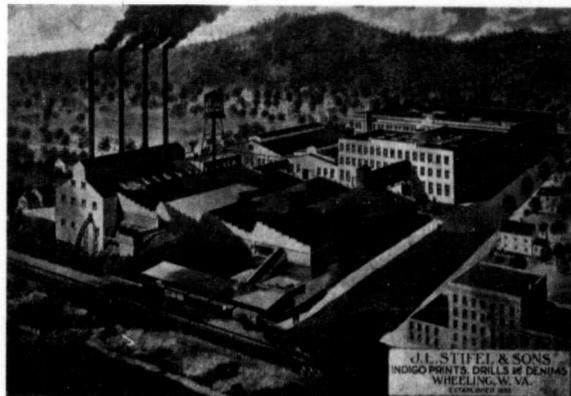
Through this publication, the makers of Stifel's Indigo, J. L. Stifel & Sons, extend to you an invitation to visit in person the mills pictured here whenever you come to West Virginia. They would like to show you through the plant which since 1832 has been working for the best interests of all men who wear overalls, work shirts and jumpers.

GET HIGH QUALITY PREMIUMS FOR YOUR SOAP COUPONS

We take great pleasure in directing the special attention of readers of this magazine to the announcement on another page of the "Premium" system of the Royal Crown Soaps, Limited, of Winnipeg.

It is of exceptional interest at this time to every woman of the farm home, to the young folks—indeed to everybody, as the great variety of premiums offered include something suitable for everyone.

These wonderful premiums are, of course, given in return for coupons obtained in purchasing certain products of



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Manitoba Agricultural and Home Economics Bulletins

In the library of every Farmer in Manitoba there should be a good selection of Agricultural and Home Economics Bulletins, written by the members of the staff of Manitoba Agricultural College. These bulletins are concise; they deal with matters vitally affecting the Farmer and his Family; their authors know Manitoba conditions at first hand; they present the most advanced information on the subjects discussed. They are FREE to all Manitoba applicants.

VALENTINE WINKLER

Minister of Agriculture and Immigration for Manitoba

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Departmental Reports

- ... Annual Report of Department of Agriculture.
- ... Latest Provincial Crop Report.

Bulletins

- (Manitoba Farmers' Library Series) Extension Bulletin
- No. 1—Lightning Control.
 - 2—Barn Ventilation.
 - 3—Standing Crop Competitions and Seed Fairs.
 - 4—Control of the Sow Thistle in Manitoba.
 - 5—Hand Selection and Harvesting of the Seed Plot.
 - 6—Home Economics Handbook.
 - 7—Fattening, Killing and Dressing Chickens for Market.
 - 8—Sending the College to the Country.
 - 9—Common Breeds of Poultry.

Bulletins

- (Series not issued periodically.)
- No. 1—Horses in Manitoba.
 - 3—Care of Milk and Cream.
 - 5—The Farm Garden.
 - 6—Farm Poultry in Manitoba.
 - 7—Hog Raising in Manitoba.
 - 8—Cow-Testing.
 - 9—Repairing Farm Equipment and Roads.

Publications Branch,
Manitoba Department of Agriculture,
Winnipeg, Canada.

Dear Sirs:—I am a Manitoba citizen. Please supply the Bulletins and Circulars marked X by me on this sheet.

Name.....

P.O.....

Province.....

N.W.F.

- No. 10—Plans for Farm Buildings.
- 11—Canning and Preserving (Fruit).
- 12—The Farm Flock (Sheep).
- 14—Care of Cream for Creameries, Storing, Ice and Grading of Butter.
- 15—Boys' and Girls' Clubs.
- 16—Hay and Pasture Crops in Manitoba.
- 17—Silo Construction and Ensilage Production.
- 18—Bee Keeping in Manitoba.
- 21—Farm Cost Accounting.
- 22—M.A.C. Manual in Mechanical Drawing.

Circulars

- 1—The Farmers' Beef Ring.
- 7—Our Friends, the Birds.
- 8—Hints on Home Nursing.
- 10—Meat and its Substitutes.
- 11—What every Girl Should Know

- No. 12—Poison Ivy and Other Poisonous Plants.
- 13—Cream for Creameries.
- 14—Method in Dressmaking.
- 16—Pork Making on the Farm.
- 17—Servants in the House.
- 19—Fodder Corn in Manitoba.
- 20—Alfalfa Inoculation.
- 21—Barley Growing.
- 23—Improving the Farm Egg.
- 24—Growing Plums in Manitoba.
- 25—Growing Cherries in Manitoba.
- 26—Control of Insect Pests.
- 27—Pruning Trees for a Cold Climate.
- 28—Spray Mixtures.
- 29—Tree Pests and Cutworms.
- 30—Treatment of Alkali Soils.
- 31—Rye as a Weed Eradicator.

- No. 32—Cultivation after Harvest for Weed Control.
- 33—Marketing Manitoba's Wool Crop.
- 34—Care of Cream for Creameries (Ruthenian Edition).
- 35—Care of Cream for Creameries (German Edition).
- 36—Winter Feeding of Cattle, Utilizing Rusted, Unthreshed Grain.
- 37—Hints for the Housewife on Buying Dressed Poultry.
- 38—Rusted Wheat and the Seed Situation for 1917.

Home Economics Literature

- Cookery
- Lesson
- 1—Principles of Cookery.
 - 2—Effects of Heat on Food Materials.
 - 3—Bread, Cereals, and Vegetables.
 - 4—Combination of Foodstuffs.

- Lesson Home Nursing
- 1—Rules to Observe.
 - 2—Nurse's Routine Duties.
 - 3—Comfort of Patient.
 - 4—Symptoms of Sickness.
 - 5—Home Treatments.
 - 6—Accidents and Emergencies.
 - 7—Contagious Diseases.
 - 8—Feeding the Sick.
 - 9—Maternity Nursing and Baby Hygiene.
- Personal Hygiene
- 1—Human Machine.
 - 2—Running of the Machine.
 - 3—Care of the Machine.
 - 4—Proper Attitude of the Body
- Laundry
- 1—Equipment—Water—Some Common Alkalis.
 - 2—Soap, Soap Substitutes, Bleaching.
 - 3—Fabrics (Cotton and Linen).
 - 4—"The Family Wash" (Part 1) "Starch."
 - 5—"The Family Wash" (Part 2) "Special Washing."
 - 6—Ironing.
 - 7—Mudins, Lace.
 - 8—"Silk"—"Disinfectants"
- Sewing
- 1—Equipment—Shirtwaists and Skirts.
 - 2—Theory of Foods.
 - 3—Cost and Adulterations.
 - 4—Fruit, Vegetables and Cereals.
 - 5—Protein Foods.
 - 6—Bread and Buns.

this celebrated Western Canadian Soap Factory. Details will be found on page 57, but we refer to the matter for two reasons: first because we have personally and in the household used Royal Crown Soap products for a long time, and can say that apart from all premiums, the particular soaps or soap powders are not surpassed either in quality or value by anything else of the kind we have experimented with; secondly, the quality of premiums offered is the best, nothing cheap or shoddy. We have gone to some trouble to inspect these—indeed one line of electro-plated spoons (English) has been in constant use in the household for over three years, and are as good at this date as on the day they came into our possession.

It is impossible in reasonable space to do justice to the splendid assortment laid out on the floors, walls and show cases of the big warehouse reserved exclusively for this department. The art productions in chromos, lithographs, photogravures and etchings are far away from the cheap and ordinary framed monstrosities that are so often handed out by so-called premium houses. Books by the best authors in excellent and attractive bindings, toy picture books for the little tots, parlor games, toys of every description, air guns, baseball mitts and gloves, carving sets, ladies' purses and hand bags, fountain pens, silverware, jewelry, dolls, watches, sporting goods, etc., all figure prominently in this wonderful list.

Several thousand dollars of necessary

advertising money is invested in these useful and beautiful presents, all of which are given away to the patrons thrifty enough to use Royal Crown Soap and save the coupons, knowing that their quality will bespeak for the products, and thus advertise in a way that is great and lasting.

The Royal Crown Soap Premium Department makes a strong bid for a personal visit on the part of any patron, because it is impossible to convey a fair impression of what they have to offer by ordinary mail service. It seems as if it would really pay our friends to save their coupons until they have a sufficient number to secure a premium "worth while," and if they contemplate visiting Winnipeg at any time in the near future to bring them in and see for themselves the actual goods rather than pictures or faint descriptions of them. The assemblage of fine things is really a wonderful display, representing, as it probably does, the largest stock carried by any Premium Department in Canada.

THE HOME OF MUSIC IN SASKATCHEWAN

No province in Canada to-day plays second fiddle to Saskatchewan in taking a genuine and highly cultivated interest in music. Recognizing this and the ever increasing numbers of its musical population, Ye Olde House of Heintzman and Co., Limited, has gone to unusual lengths in providing not only for all present

demands of the musical world in the province, but in making large provision for the future. The provincial headquarters at Regina are under the management of Mr. R. F. Hockin, with Mr. J. L. Secord as sales manager.

The Regina house is fully equipped for the Western trade, having an up-to-date department for checking over all pianos shipped direct from the factory in carload lots and single shipments, employing its own factory workmen and experts in its several different branches of piano construction. Its staff of player piano and organ experts are men of exceptional experience. This fact is of the first importance to the endless contingencies arising from damage, climatic or other influence to pianos, player pianos, organs, violas or stringed instruments. All new goods are also carefully examined by these experts before shipment is made. The piano saloon of the Heintzman Company in Regina is one of the largest in the West. On its floors will be found a display of pianos and all other instruments that is not surpassed by any of the kind in Western Canada for style, quality and musical excellence. The sheet music department is also replete with everything published, ancient and modern, classic and popular, vocal and instrumental for which there is likely to be the slightest demand to-day.

The stock of violas and records for same has engaged the special care of the company—many thousands of dollars being invested in this department alone. Its service system leaves no loophole that

has not been foreseen and amply provided for. The mail order branch enables goods to be shipped without loss of time to the most distant points and with a cast-iron guarantee of the same satisfaction as if the purchase was made in person from the Company's store.

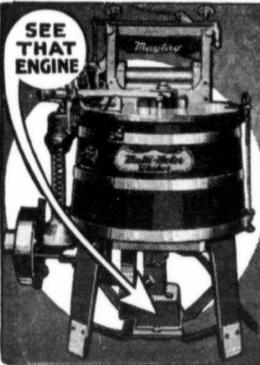
Realizing that one satisfied customer is worth tons of advertising and that one disappointed client can do more damage than any hostile attack, the slogan of the Heintzman people in Saskatchewan is "perfect satisfaction or your money back." It is by living out this principle to the letter that the remarkable progress can be traced which has distinguished the history of "Ye Olde House of Heintzman & Co." since it opened its doors in the cities of Western Canada.

Branches are conveniently placed at Saskatoon and Moose Jaw to facilitate shipping, while they are fully equipped with large stocks and qualified staffs to take care of all regular business which a perfect branch service can handle.

ECONOMY FOUNDRY PRODUCTS

One of the most progressive and busiest manufacturing plants in the Winnipeg district is the Economy Foundry Company of Portage la Prairie. While this Company has been under control of the present owners for the past five years, it has in the past largely devoted itself to structural and ornamental iron work. Three years ago the Economy Foundry Company put on the market their Economy Roller Grain Crushers. This machine, like all other new things took some time and a great

**HERE IS WHAT YOU
HAVE ALWAYS WANTED**



Maytag
Multi-Motor
Washer
Complete with Engine and
Swinging Wringer

If the store you trade at does not handle this washer, send us their name and we will mail you a copy of **The Maytag Laundry Manual** (48 pages) Even if you do not buy a washer, it will be a great help to you, as it contains many valuable formulas and recipes that can be used to advantage in any home. It is **Free**.

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PATHEPHONES

PATHE AND DIAMOND DOUBLE DISCS
No need to change—unwearable records.
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If you
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GERALD S. ROXBURGH, K. A. S. C.
36-37 Canada Life Bldg. WINNIPEG

WANTED information regarding good farm for
sale. Northwestern Business Agency, Minne-
apolis, Minn.

deal of work to properly introduce, to the public, but by continuous and energetic "plugging" the Economy Foundry Co. have brought this Economy Crusher up to the highest degree of efficiency from a mechanical standpoint, and have established a very successful trade on these machines throughout the entire Western part of Canada. That these Roller Grain Crushers have proven to be such a decided success is amply demonstrated by the large number of orders this Company has booked at the present time.

In addition to their line of Roller Grain Crushers, this Company now manufactures a complete line of stock feed cookers, stock tank heaters, cast and wrought iron stable fittings, iron window and door guards, galvanized iron stock tanks, oil and water tanks, corrugated iron culverts and well curbing. This Company has one of the most modern and best equipped machine shops and foundry and heavy sheet metal working plants in the West.

They have, during the last season installed a very large amount of new equipment and have made some very extensive improvements at their plant, and expect to make further improvements after January 1st.

The Economy Foundry Co. is distinctively a growing Western manufacturing concern, catering to Western trade and should be entitled to the patronage of the Western buyer.

**LUMBER—STRAIGHT FROM THE
MILL**

On another page will be found the business announcement of the F.M.T.C. Lumber Company. Vancouver—their initials simply mean From Mill to Consumer. This company has been organized to sell lumber, shingles, lath, doors, windows, fence posts, etc., direct to the consumer only, and belongs to no ring, trust or combine. The management has had long experience in the lumber manufacturing business in British Columbia, as well as in the selling of lumber products on the Canadian prairies. It was seen that the lumber dealers on the prairies, by combining together, kept the prices they would pay to the manufacturer down at rock bottom, while in turn they charged the consumer most exorbitant prices—prices which in most cases were yielding them nearly 100 per cent profit.

One of their excuses for high prices was that they had to sell considerable lumber on credit, and consequently the losses from bad debts were heavy, and to cover this loss they had to charge very high prices to the man who paid promptly. Furthermore, it was found that a common practice among the prairie lumber dealers was to re-grade the lumber, after receiving it from the mill, to their own advantage, so the consumer was not only paying very high prices, but he was not getting the quality of lumber that he should have.

It was also found that the poor storage, and the many handlings, of some of the retailers all tended to lower the quality of the lumber. In view of these conditions the F.M.T.C. Company decided to sell its lumber direct from the mill to the consumer, at lowest saw mill prices, and thereby save the consumer from 20 per cent to 40 per cent.

A very important feature of this business to which very particular attention is given is prompt shipment. It usually happens that the customer does not place his order for lumber until he is in urgent need of it. In this case shipments are always made with the least possible delay.

Many unsolicited letters are on file from customers who testify to having saved from 20 per cent to 50 per cent on their lumber purchases in buying from us. They also affirm that they have received uniformly better quality, and our service left no loophole for criticism. In view of the steadily increasing cost of manufacturing lumber, owing to scarcity of labor, higher wages and advanced prices in all mill supplies, now is the right time to start in to secure lumber for spring operations.

There seems to be no doubt that there will be a big rush for building materials next spring, and readers who have prospective structural schemes in view should get in touch with our friends at once.

**A Merry Christmas
To One And All . .**

**START THE NEW
YEAR IN COMFORT**

by wearing a



SWEATER COAT

SOLD AT ALL GOOD STORES

NORTHLAND KNITTING CO., Ltd.

WINNIPEG

Manufacturers of Leather Mitts and Gloves and Sweater Coats



MISS E. CORA HIND

live stock men and gracefully acknowledged on many occasions. In this instance, however, their appreciation was evidenced in a more tangible way, which took the form of a purse containing \$1,300 in gold. It was accompanied by a most beautifully illuminated address presented in name of the live stock fraternity by Dr. J. G. Rutherford, C.M.G., Calgary.

We regret we cannot publish a satisfactory sample of the gold, but all that it meant is gracefully embodied in the words of the address, which are as follows:—

MISS E. CORA HIND.

Among those whose names will, for all time, be most closely associated with the advancement of Agriculture in these Western Provinces, you occupy an honoured place.

Since the days when, as Secretary of the Manitoba Dairy Association you first identified yourself with Western Agriculture, your record is one of faithful and invaluable service, at all times ungrudgingly given, to the interests of the Farm and the Farmer.

Though your work has never shown either fear or favour, every branch of Agricultural endeavour having greatly benefited by your able efforts, the live stock men of Western Canada feel that they have in you an especially loyal and devoted friend.

They have chosen this meeting of the Western Canada Live Stock Union, which, from its inception, owes much to your clear headed and energetic assistance, as a fitting occasion to express in some small degree the high esteem in which they hold you and their grateful appreciation of your long and earnest labours on their behalf.

They wish you every possible happiness and prosperity, and sincerely trust that you may long be spared to assist in the further development of the Basic Industry of the Canadian West.

They beg your acceptance of the accompanying purse as a slight token of their sincere friendship and regard.

WELL MERITED RECOGNITION

With ourselves every reader of the Canadian Thresherman and Farmer will extend hearty felicitations to Miss E. Cora Hind on the graceful and substantial compliment paid to her by the members of the Western Canada Live Stock Union, at its convention in Calgary last month.

Miss Hind, for many years, has discharged with exceptional ability the duties of agricultural and commercial editor of the Manitoba Free Press. Her contributions to this magazine were mightily appreciated by and helpful to a wide circle of our readers, and there is probably no man or woman who has a more thorough and extended knowledge of Canadian live stock, or who has rendered its interests greater service than she has done.

This has been fully realized by the



Butter-Making and the Old-Fashioned Cow by a Woman of the Farm to her Neighbors
By Ida M. Shepler

You know, there are people that seem to be natural-born butter-makers. Given almost any kind of a poor cow, provided with little in the way of convenience in saving milk, yet the butter they produce will be sweet, firm and possess the keeping quality. "Gilt-edged butter," the market calls it. Again there are women, no difference if provided with cows of rich milk, cool cellars or spring houses and all appliances needed for making good butter, and not a pound of butter can they make fit to eat.

It is a case of stupidity and laziness, a lack of love for the work. They are of the kind that will not listen to you if you insist that knowing how to make sweet, solid, keepable butter is fully as much a work of art as painting a good picture, and times, over more necessary in the economy of living than the embroidering or crocheting of an elaborate table cover. Away a white, clatty, quickly spoiled dish of butter have I tried to partake of from off tablecloth and doilies finely hemstitched and embroidered. The mistress had time for this, but not for learning how to make good butter. A poor butter maker, if she only knew it, is invariably given little credit by her neighbors for the works of art she does so laboriously accomplish. They feel that she has failed in the first prime need in art, care and industry of the right sort. A poor, careless butter-maker usually proves, when you come to see her home-making closely, a poor housekeeper all around.

Old Country Butter-Making

The farm women of my mother's family were always spoken of as good butter-makers. It was said they inherited this art from our grandmother. She was of pure Scotch origin, but born on a landed estate in the north of Ireland, which her father had inherited.

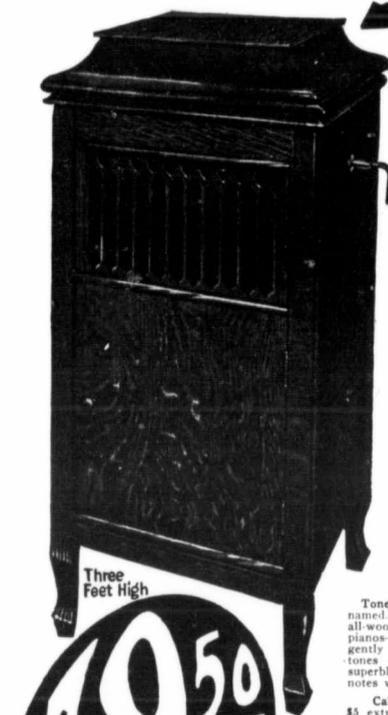
The north of Ireland women are noted for the making of fine butter—the ladies overseeing their dairy maids in this work. They, too, are particular, very much so, in the kind of dairy cows kept. My grandmother, when she ran away from home with a lover below her in caste and came to America with him, would not allow him to work in the shops. She must live on land, as more befitting her birth than trade, and land he soon managed to get for her, and also the big Durham cows she demanded.

In fact, nothing small in the way of stock suited my grandmother. The cattle must be Durham, the larger the cows the better. The horses, too, must be chosen for size, while the chickens were Shanghai or Brahma-Pootrah, and she and my mother both knew how to breed these to huge size for chickens. My grandmother died an old woman, when I was a little girl, and the name of Brahma-Pootrah was not then heard in our neighborhood except from her lips, as even Shanghai had gone out and in its place and that of Pootrah had slipped Dominique, Cochin and Brahma, dark and light; but grandmother yet hung to the big Brahma-Pootrah, a nearly white fowl, from a region of that name in China, and mother hung on to the red and gray Shanghai. It was nothing for these three kinds to weigh twelve pounds for the hens and fourteen for roosters. No wonder the Leghorns looked small when they came nesting the big ones.

And grandmother held to her pure-bred Durhams to the day she died, and mother to at least her love for them, grieving that while, as the Shorthorn they yet remained, it was not exactly the same big cow that it seemed to be when called the Durham of her younger days.

Old English Durhams

Long before grandmother's day on England's dominion English breeders had been improving on the old half-wild stock. Along the Teeswater River, from



Three Feet High
\$39.50 CASH

The Full Cabinet Melotone Talking Machine at \$39.50

Is taking the Country by Storm

The MELOTONE

Right from the makers. NOTHING DOWN—all cash—but it's half price—because it's factory to you. Wouldn't you sooner pay \$39.50 cash to the manufacturer than \$75.00 for the same machine on the instalment plan through the retailer? This talking machine is designed and built with the single idea of placing a \$75.00 machine—minus jobber and dealer profits—within the reach of all—\$39.50 f. o. b. Winnipeg. Six choice records (12 selections) \$5.10 extra. The very thing for a Christmas Gift.

Tone—The Melotone is rightly named. The tone comes through an all-wood chamber, like violins and pianos—the ideal construction. It gently gathers the faintest undertones of the composition, and it superbly renders the voluminous notes without any rasp.

Improvements—This is truly an all-record machine. It plays Edison's new disc records or Pathe, Victor or Columbia. Needles and jeweled tip for Edison's are supplied free.

Cabinet—Encased in a genuine oak cabinet of simple elegance (mahogany \$5 extra). A piece of furniture which harmonizes with the most luxurious furnishings yet is not out of place in more homely surroundings. The roomy cabinet holds 70 records—dust-proof and protected.

Get this machine because you want big value for your money. Haven't you always wanted a real talking machine? Here it is. You know this is not an old style cylinder machine, and you do not need a table or stand with it. The Melotone is complete. Don't wait another day to order because quick action will be necessary to get prompt delivery, as our output is limited. Send your remittance in to-day. Our money back guarantee and this paper protects you.

FACTORY TO HOME JOBBER AND RETAILER PROFIT CUT OUT

SATISFACTION GUARANTEED OR MONEY BACK

A FULL CABINET TALKING MACHINE FOR LESS THAN OTHER TABLE MACHINES

The Melotone Talking Machine Co., Ltd.
235 Fort St. WINNIPEG

References: Union Bank, Winnipeg

Druid times, had roamed a great, rangey, coarse-mottled breed that grew short horns and carried mainly a white and red, rough, speckled coat. Breeders took this Teeswater bred and crossed it with a couple of other smaller breeds, but in such a manner as not to disturb the heavy milk flow of the

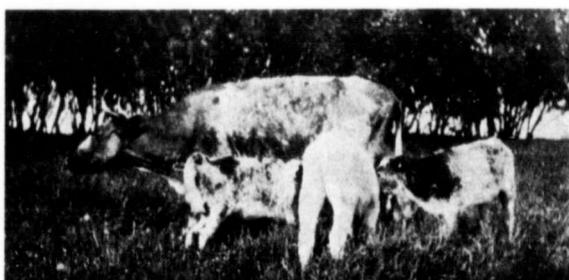
Teeswater. This changed the grain of the meat; no longer was it coarse and tough, and this new breed was the Durham, changed in after years to the name of Shorthorn. It yet shows, in cases, the speckled Teeswater color, or a cherry red and white spotted coat, or a black and cherry brindle, or a pure white coat

of thin hair, and deep yellow skin, with one or both ears dark.

We would not keep a Durham cow of any color if she did not give two wooden bucketfuls of milk when fresh and one wooden bucketful well up to next calving time. What big calves they had, and so strong! And, oh, the good Durham milk, and firm, peculiarly sweet-flavored butter. The calves beat all other breeds in maturing.

I remember, when small and a growing girl, how careful we must be about spoiling our big Durhams. We must be careful about allowing them to run too long wild in the deep woods before bringing them up with calves. Just so sure as we allowed them to run free too long, and give them no domestic training and petting before they were allowed to raise calves, just so sure did we never exactly get them as gentle as they ought to be, while that first calf, as well as those that came after, were nearly sure to be nervous and kickers, ready to kick at you sideways or back.

Another noticeable thing about the Durham was that it would fatten easily and keep its fat all the milking time, no difference how much milk it gave, and I



The kind old "Hawkie" who is never done giving

never knew one that did not give more milk than any other cow, but the Durham breed is not so hardy to cold as some other of our breeds. A Durham, or as I should properly now say the Shorthorn, needs good, warm shelter in severe winter weather or really bad weather of any kind. For that matter, all animals should be given this, but if anything will diminish the milk flow of the Durham and take its fat it is turning it out in stalk fields to shiver the winter through. Inflammation of the lungs we found to be their menace.

Cases of Stock Poisoning

Once two of our Durhams jumped the woods fence—they can most of them jump a tolerably high fence—and wandered off to a sorghum mill. They got over the fence into the pummies, or ground stalks, and ate them. They were both dead by morning. These stalks, after standing a while, develop enough of a certain drastic poison to kill cattle.

Once on a neighbor's farm I saw a

case, or rather several cases, of something that used to be called the "mad itch". A bunch of hogs had been fed corn on the stalk while fattening. Hogschew over these stalks while eating the corn, and it is quite dangerous, though some farmers do not know it, for cattle to eat these chewed-over stalks. Our neighbor's cattle ate these; the stalks would not digest and pass on out of the stomach; an inflammation set up that literally turned the cattle mad. They would stop and scratch their hides on the fences, then gallop and bellow until they died.

We also never allowed cows to eat the rotten hay in manure piles. Some will do it in spite of you. It invariably causes the milk to froth in the churn and the butter to refuse to "gather". I have known the sudden death of cows also to be attributed to eating too heartily of straw or hay thrown out with the manure, although I am not so sure of this as I am of the frothing milk while churning it for butter.

LESSONS IN COOKING
By Edith Charlton Salisbury
— No. 2 —

Some first principles. Little things, the knowledge of which makes the work easier and pleasanter.

Last month, in preparing for our practice lessons in cooking, we took a glance at food values and briefly attempted to explain the meaning of food constituents, and the use of each in the body. Now we are ready to begin work and will prepare some of the simplest, most practical dishes, for three meals a day.

But before beginning to cook, it is well to arrange the kitchen in the most convenient way for our work. Every article, and each piece of furniture, should be in the most desirable place to insure the work being accomplished with the least expenditure of time and comfort. The size of the kitchen will vary with conditions and with the amount of work to be done, but it should be no larger than necessary; there should not be even one square foot of space that is not needed, if it can be avoided. There should be good ventilation and good light and the principle pieces of furniture should be as near together as possible, to eliminate unnecessary steps.

Have the cooking utensils conveniently arranged in cupboards, on shelves and hanging on the walls. The kitchen is your work room and there is no reason why the implements of work should be kept out of sight. Before beginning to cook, see that all the utensils and food materials are in readiness. If coal is the fuel, make sure that the oven will be the right temperature when you are ready for it. To have everything ready before you begin operations always means a saving of time in the end and perhaps means a better finished product. For a large kitchen, especially if utensils and supplies are at some distance from the stove, a particularly useful contrivance is a cooking table on wheels which can be moved from one place to another to be loaded with the materials likely to be needed. Have the utensils hung around the sides and then the table may be wheeled into the handiest place for work.

An excellent housekeeper of the old-fashioned type used to give this advice, which might very well be followed by some of the young cooks, who boast of having had scientific training. This housekeeper said: "Always clean up as you go along, put things away as soon as you have finished using them. Don't leave the sugar can and the flour bin uncovered after you have taken out what you want. Wipe off the receptacles and put them back in their places. It will save you time in the end."

Do not use any more cooking and mixing dishes than necessary; save work by rinsing or washing and using the same ones over again. Put to soak as soon as you have finished using them all dishes that cannot be easily washed.

Do not make half an hour's dishwash-

ing in preparing a meal. Work neatly—do not "clutter up" the kitchen.

Before beginning to cook, make sure that hands and nails are perfectly clean and hair neatly dressed.

Some Important First Principles

Besides rules for measuring, which were given last month, there are a few little facts that it is well to master thoroughly; for attention to them always make work easier and success surer. The common thickening agents used in ordinary cooking are flour, corn starch, eggs and gelatine; junket or rennet tablets are sometimes used in thickening milk. To know the proportion of these materials to be used with a given quantity of milk is important.

One level tablespoon of flour will thicken one cup of liquid for soups or gravies.

Two level tablespoons of flour will thicken one cup of liquid for sauces, suitable for creamed vegetables, puddings, sauces and creamed oysters.

If cornstarch is preferred to flour, use one and one-half tablespoons to each cup of liquid, and when browned flour is needed to thicken gravies use one and one-half tablespoons instead of one of ordinary flour.

Four level tablespoons of cornstarch will thicken 2 cups of milk for cornstarch pudding.

For a baked cup custard, use one egg to each cup of milk. To make a custard that will turn out of the baking dish and hold its shape requires three eggs for two cups of milk.

One tablespoon of gelatine will stiffen about one pint of liquid in winter, about one-half teaspoonful more may be necessary in warm weather.

Leavening Agents: Doughs are made light either by the use of baking powder, sour milk and soda, molasses and soda, beating in air and entangling it in egg, enfolding the air in thick doughs or by yeast.

The principle is the same in using either yeast, baking powder or soda and sour milk; in each case there is the production of carbon dioxide gas which expands with the application of heat, forming air sacs in the moist dough. The walls of these sacs harden in the baking, leaving the dough porous. In growing the yeast plants, change some of the starch in the flour to sugar by a process of fermentation which produces the required gas. Baking powder is a combination of baking soda and an acid, sometimes tartaric, and when these two chemicals combine with heat and moisture, the same gas is produced. The same result is obtained by using soda (an alkali) and cream tartaric (an acid) or sour milk or molasses (acids) and baking soda (alkali).

The rule for using baking powder is two level teaspoons to each cup of flour for biscuits and all batters where no more than two eggs have been used; if

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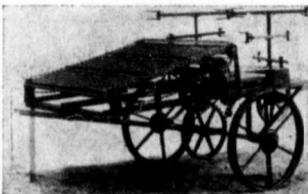
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more than three egg whites, stiffly beaten, use only one and one-half teaspoons of baking powder.

One-half teaspoon of soda for each cup of sour milk will be sufficient unless the milk is very sour. The best cooking molasses will require one-half teaspoon of soda to each half cup of molasses.

When eggs are used for leavening agents, the whites are beaten separately as the air is readily entangled in the globules of albumen. The stiffly beaten whites are folded into the batter just before putting it into the baking pan and there should be as little stirring as possible to avoid breaking air cells.

When air is depended on to make a batter light, as in pop-overs, all materials should be kept as cold as possible because cold air expands more on heating than warm air. The oven should be very hot at first in order to harden the air cells quickly.

Mid-Winter Meals

It will be impossible, on account of space, to give more than three meals each month, but an effort will be made to have them suitable for the season in which they are published. They will also be of such a character that even inexperienced housekeepers will be able to modify them for her particular needs. In all cases these menus will be simple and yet will contain sufficient nourishment to satisfy the needs of any individual. More elaborate menus are not required to satisfy hunger but to satisfy an abnormal appetite. When the average man and woman fully realizes this truth and follows its teaching there will be a wonderful lessening of labor in any house, especially the farm home.

BREAKFAST

Oatmeal Porridge Cream and sugar
Buckwheat Cakes Bacon
Toast Marmalade
Coffee

Oatmeal porridge—Into the upper part of the double boiler put three cups of boiling water; add ¼ teaspoon salt. Place directly over the fire and stir in slowly 1½ cups of rolled oats. Let the mixture boil for five minutes, stirring occasionally; then set over the hot water in the lower part of the boiler and cook from one and one-half to two hours.

Buckwheat cakes—To 2 cups scalded milk, cooled to lukewarm, add ¼ yeast cake dissolved in ½ cup of warm water; ½ teaspoon of salt and enough buckwheat flour to make a thin batter. About 2 cups. Let rise over night at a temperature of about 70 degrees F. In the morning beat well, add 1 tablespoon of molasses, ½ teaspoon of soda dissolved in a little warm water; mix and beat well and drop by spoonfuls on a hot greased griddle; cook on one side until well risen, full of bubbles and browned on the edges; turn and cook on the other side. Serve with butter and syrup or with bacon gravy.

Bacon—Slice the bacon as thinly as possible and remove the rind. Arrange

the slices side by side in a warm, not hot, frying pan and cook slowly until crisp and brown. As the fat fries out of the bacon pour it out of the pan, or the bacon will not be crisp. When well browned on both sides, drain the slices of bacon on brown or any absorbent paper and serve hot. Bacon cooked in this way makes an easily digested food.

Toast—Cut bread, two days old, into slices ¼ inch thick. Put in a moderately warm oven for a few minutes to dry out, then brown over glowing coals or arrange on a toaster fitted for a burner on a gas stove. Brown both sides a golden brown, butter lightly. Pile slices together and keep very hot until ready to serve. Toast that is served un-buttered is more digestible and better suited for children and invalids.

Coffee—For each cup of coffee to be made, allow two level tablespoons of ground coffee. Mix with one cup of cold water and as many eggshells (washed before the eggs were broken) as there are cups of coffee to be served; then add the required cups of water, either cold or freshly boiled, omitting two cups, one with which the coffee grounds were mixed, and one which should be replaced with hot milk. Place the coffee pot on the range and slowly bring the coffee to a boil, stirring occasionally. Allow it to boil one minute then place on a cooler part of the range where the coffee will simmer for four or five minutes. When ready to serve, either pour off the grounds and add the cup of milk, which must be scalding hot, or serve with the scalded milk. A better flavor is obtained if the scalded milk is added before the coffee is sent to the table. Do not attempt to use cold milk boiled with the coffee as this will give an entirely different result and one you will not like.

Preparing the meal—Start cooking the porridge for breakfast while washing the supper dishes the night before. Let it cook until the evening work is done, remove from the fire, cover the double-boiler tightly and let stand on the back of the range, on the hot-air register, or on the steam radiator where it will keep hot all night. An ideal way to cook cereals of any kind is to use a fireless cooker, even a homemade one. In the morning re-heat the cereal, put fresh water in the tea kettle and put it on to boil. Make the coffee, fry the bacon, make the toast and put it in the oven to keep hot; then fry the buckwheat cakes. If there is sufficient time in which to prepare breakfast, it is better to make the coffee with cold water and allow it to come slowly to the boiling point, as in this way more of the coffee essence is extracted. Tea may be substituted for coffee if desired. This should be made with freshly boiled water poured on the tea leaves just before time to serve. Allow one level teaspoonful of tea to each two or three cups of water, depending on the strength desired, but in no case should the tea be allowed to boil, as this extracts too much of the tannin, which is the objectionable substance in tea.

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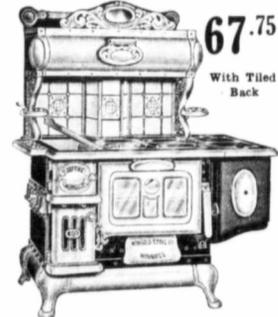
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DINNER

**Boiled Corned Beef
Boiled Potatoes Cabbage and Turnips
Steamed Chocolate Pudding**

Boiled Corned Beef—Select 4 pounds of good corned beef, either the brisket or rump piece. Rinse the meat in cold water and put on to cook in cold water. Remove the scum after it has boiled 5 or 10 minutes, then let simmer slowly until tender, which may require 5 or 6 hours.

About an hour before the meat is cooked, peel and quarter the potatoes and turnips, cutting the latter in smaller pieces if desired. Let stand in cold water until needed. Remove the coarse outside leaves from a head of cabbage and cut into eighths. Remove the meat from the liquid, skim off the fat and scum and add the turnips. When they have boiled, add the potatoes and cabbage and cook all the vegetables until tender. Serve the corned beef on a platter surrounded by the potatoes and turnips. The cabbage should be served in a separate dish.

Steamed chocolate pudding—Cream 3 tablespoons of butter with 2/3 cup of sugar, add one egg and beat thoroughly. Mix and sift together 2 1/4 cups of flour, 4 1/2 teaspoons of baking powder and 1/4 teaspoon of salt. Add to the creamed mixture, alternating with 1 cup of milk, then add 2 ounces of chocolate (one small square), melt the chocolate over hot water, do not add any liquid to it. Turn the pudding into a greased mould or dish, cover and steam 2 hours over rapidly boiling water. Serve with cream sauce.

Cream sauce—Cream 1/4 cup of butter, add 1 cup of powdered sugar gradually, 1/2 teaspoon vanilla and 1/4 cup of cream or undiluted evaporated milk. The cream or milk must be added gradually, only a few drops at a time, or the butter and sugar will separate and the sauce have a curdled appearance. Do not attempt to make this sauce with melted butter.

SUPPER

**Scalloped Salmon and Spaghetti
Baking Powder Biscuits Canned Fruit
Tea**

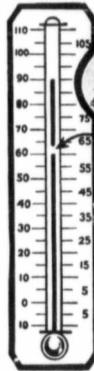
Scalloped salmon and spaghetti—Break 1/2 cup of spaghetti or macaroni into short pieces, add to one quart of boiling salted water and boil until tender. Separate one can of salmon from bones and skin and arrange in layers in a baking dish, alternating with the cooked spaghetti. Pour over all 1 cup of white sauce, season with salt, pepper and 1 tablespoon of lemon juice. Cover with buttered bread crumbs and bake 20 minutes in a moderate oven. To make the white sauce, melt 2 tablespoons of butter, add 2 tablespoons of flour, 1/2 teaspoon of salt and a little pepper; cook until blended and bubbling, then add gradually one cup of milk. Stir constantly until thickened then boil slowly two or three minutes.

To make buttered crumbs, grate or roll stale pieces of bread very finely and add 1 teaspoon of melted butter to 1/4 cup of crumbs; mix well and spread over scalloped dishes. White sauce and buttered crumbs will be used many times in our menus but the recipes for them will not be given again, so it will be well to reserve them for future reference.

Baking powder biscuits—Sift 2 cups of flour, 4 teaspoons of baking powder and 1/2 teaspoon of salt together in a mixing bowl; then work in with the tips of the fingers, or chop in with a knife 2 tablespoons of butter, lard or drippings; moisten to a soft dough with about 3/4 cup of milk, or water and milk. Turn on a floured board with as little kneading as possible, roll to about 3/8 inch thickness. Shape with a biscuit cutter and bake in a hot oven from 12 to 15 minutes.

These recipes make dishes of sufficient quantity to serve six persons. If larger are required double the quantities of ingredients.

More benefit will be derived from these lessons if the different recipes are tried; directions followed accurately and reports sent in to this office. If any difficulties are encountered, results are not satisfactory, be sure to let me know and I shall be pleased to give full explanations, if possible.



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A THOUGHT FOR THE TIMES—TO OUR CAPTAINS OF INDUSTRY

IT WAS INHUMAN

"What was wrong with our pre-war organization of industry can be stated in one word. It was inhuman," says The Round Table.

"The coming of the joint stock company and the growth of large-scale undertakings had destroyed the old personal tie between masters and men and the sense of common service to the community that was associated with it. It has been replaced by mechanical profit-making organizations, which have not yet either been humanized or related to public service.

"In this vicious situation a great national responsibility rests upon the leaders of both groups of combatants. The future of the community depends on them working with and into one another. The issues are too tremendous to be left to tests of strength.' These words are quoted from the last book written by one who was both an employer and a teacher of economics, the late Professor Smart, of Glasgow ("Second Thoughts of an Economist"); and he goes on to give his own remedy for improving the relations between Capital and Labour. "If they are not to be regulated," he says, "by a kind of martial law from above" (and Professor Smart, who was no Socialist, had no love for State intervention), "they must be regulated by conscience."

"It is a very simple remedy—but how much more effective, if men would adopt it, than Compulsory Arbitration or the Munitions Act! And Professor Smart goes on, out of his own experience, to make a special appeal to employers.

"Personally," he says, "I count it (the employers' function) the noblest profession of all, though, as a rule, it is taken up from anything but the noblest motives; and what I ask is—just this and no more—that the tradition of the professions be transferred to it—the noblest oblige of living for their work and, if necessary, dying for it. If an employer has any faith in the well-worn analogy of an "army of industry" he must believe in the necessity of Captains of Industry, who think first of their country and their men, and only second of their pay."

"He must take the sins of his order upon himself and win back the confidence that meanwhile has disappeared. His task to-day, in fact, is very much that of a philosopher-king who comes to his throne after many days of misrule by his predecessors. He has no right to his honorable position but that he governs divinely. And, if I am not mistaken, the first thing that will test his worthiness for high office is the attitude he takes up to Trade Unionism."



RIGHT IDEA, WRONGLY IMPRESSED
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Recruit: "Seven in this 'ere tin box, sir, an' one up the spout!"



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Recipes

ORANGE SAUCE

Heat one pint of thin cream over a dish of hot water; then add two tablespoonfuls of sugar and the grated rind of half a medium-sized orange, and cook until the cream is scalding hot; at this point add the juice of the orange and fold in the stiffly beaten white of one large egg and turn into a warm dish for serving. To fold the egg in take the white by tablespoonfuls and lay on the sauce; then carefully cut it into the sauce; at the same time fold the sauce over it, continuing this folding motion until the white is well mixed with the sauce. This method keeps the cells of the white unbroken during the cooking, and the sauce will be light and feathery instead of thick, as when the white is beaten or stirred in.

BLACK PUDDING SAUCE

Beat the yolk of one egg with one-half pint of granulated sugar and a rounding tablespoonful of butter; when it is light and foamy, add half pint of boiling water in a thin stream, beating constantly; then place the dish in boiling water and set over the fire to cook until the custard coats the spoon when it is withdrawn, instead of leaving the spoon free of the mixture; at this point add a little nutmeg and flavor with lemon juice to suit the taste; then pour the mixture in a stream on the stiffly beaten white of the egg. Serve in a warm sauce dish.

WHAT TO EAT TO BE WARM

The Right Kind of Food Lessens the Coal Bill

By Mary Hamilton Talbot

A father said to me last winter, "We're lowering our expense account by almost cutting out meat. We hardly buy two pounds a week, and I never saw the kids so hungry; we have trouble to get enough bread and potatoes to fill them up. It's funny, though, when they have such wholesome food that they complain so much of headache and have so many colds."

I was their guest soon afterward and when I saw Johnnie eat six potatoes and as many slices of bread, and Martha "fill up" on these foods, I knew why it took so much to satisfy them and the reason for the headaches and colds. Every fiber of their growing, expanding bodies cried out for food-making elements which their food lacked, and then rebellious Nature remonstrated against such a starchy diet. The over-taxed waste channels did not properly eliminate the food clinkers and the result was headache and lowered vitality, in which state an individual becomes a prey to colds and grip.

A no-meat diet which cuts expense at the cost of the body is poor economy, for meat is the great furnisher of heat and muscle-energy and is one of the greatest stimulants among foods. Our food is like the fuel we put in our furnaces, it must be burned before there is a feeling of warmth.

I can hear some meat-loving man say to his wife right here, "What did I tell you about meat? If it makes a fellow warm, have it every meal. Just cut out those 'substitutes' we've been having."

My friend, you are mistaken about having meat on the bill-of-fare three times a day. While it is a winter necessity, it must be used with discretion, and a safe rule at this season is to let meat be the main dish at one meal a day, and let the protein (the principle constituent of meat) at the other meals come from eggs, fish, cheese and nuts, all rich in this warming food element.

Store Energy Slowly

"I love mince pie, but it always gives me indigestion," said one of my friends. "When do you eat it?" I asked.

"Why, for dessert at dinner," was her reply. No wonder the stomach of the average mortal rebels at eating mince pie after a dinner of beefsteak or roast beef. There is too much protein. If, however, you let it be the dessert when the main dish at dinner is fish or "meat substitute," I doubt much if you will have any discomfort; or have it for luncheon or supper, for an ordinary

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REFUSE SUBSTITUTES.

FOAMY SAUCE
Make the sauce as for a lemon sauce, and after cooking pour it in a thin stream on the stiffly beaten white of one large egg, beating constantly during the pouring process.

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Take a trip—somewhere—anywhere—and just mention your intention to the nearest Canadian Northern agent; we'll do the rest, and we'll do it right. We have them all—the Service—Equipment—Dining Car Service—Standard Sleeping Cars—Newest and Best of Tourist Cars and Day Coaches, electric lighted, with every latest improvement, all of which with the courteousness of the attendants make up a service that Canadians are likely to mention when talking to outsiders in a boastful mood.

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General Passenger Agent **WINNIPEG**

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How much we can give for furs, not how little, is always the question with us. We pay bigger prices because this method gives us first chance at best furs, and manufacturers come to us for their supply. Trappers, hunters and farmers all over the country send catches to us because they know no one else could pay more or would pay so much. We will take your furs, too, on the same basis. Write at once and get our price list early. We sell you about every change in the market. You get the prices shown. No deductions for commission or transportation. Liberal grading.

BECKER BROS. & CO., 2-3 Auctioneers of Classified Price List
Dept. E.G., 418 N. Dearborn St., Chicago
Dept. E.G., 129 W. 25th St., New York



Best for Baby

After many years' use by parents of all classes, in Royal Nurseries and humble homes, Savory and Moore's Food has the reputation of being a thoroughly reliable food for infants.

The experience of parents, nurses, and medical men all goes to show that babies do thrive remarkably well on this famous food, that its use prevents infant ailments, and that it builds up a strong constitution, so important in later life. You may therefore bring up baby on Savory & Moore's Food with the assurance that you are doing the best you can for your child.

MOTHER'S GUIDE FREE

Savory & Moore's little book, "The Baby," is full of useful information on Infant Management, and contains hints on Feeding, Teething, the Toilet, Infant Ailments, and many other subjects. It is just what a young mother needs, and will prove invaluable in the home. A Free Copy may be obtained on application to Savory and Moore, P.O. Box 1601, Montreal.

SAVORY & MOORE'S
Of all Druggists and Stores



JAEGER

For Your
Soldier Friend

If you have a friend at the front he will appreciate a Jaeger Sleeping Bag. Send it to him now for a Xmas Gift. An undyed Camel Hair Blanket will also be appreciated. These are useful gifts which he can use at all times and which will give him warmth and comfort.



A fully illustrated catalogue and Dr. Jaeger's Health Culture will be sent free on application.

DR. JAEGER Sanitary Woolen System Co. Limited
Toronto Montreal Winnipeg
Incorporated in England in 1883, with British Capital for the British Empire

SHIP YOUR
FURS
AND
HIDES
TO
McMILLAN FUR & WOOL CO.
277 RUPERT STREET
WINNIPEG - MANITOBA
WRITE FOR CIRCULAR
TRIPPERS CAN'T TALK TO THOSE WHO
SHIP TO US

piece of mince pie is equal in food value to a piece of roast beef, a medium-sized potato and a slice of bread with a liberal supply of butter.

FROSTINGS

Boiled Frostings—Secret of making good boiled frosting: One and one-half cups sugar, one half cup water, whites of two eggs. Beat your eggs so stiff that you can turn the bowl over without their running out. Boil your sugar and water together until the thread is about three inches long; if shorter your frosting will not become firm; if longer it will be grainy. Pour syrup slowly on egg whites, beating all the time. Then take your egg beater and beat as long as you can, finish beating with spoon; it may take 15 minutes. In very warm weather place frosting bowl in bowl of ice water. If these directions are followed your frosting will never become hard or grainy and can be placed on your cake three quarters of an inch thick.

Caramel Frostings—One and one-half cups brown sugar (dark), one half cup cream or milk (if milk is used add a piece of butter the size of a hickory nut), and boil until it threads. Take from fire and beat until thick enough so it does not run from cake. Flavor with vanilla.

Two cups white sugar, three tablespoons milk, butter size of walnut, one teaspoon flour: mix with milk, boil about 15 minutes, stir until cool; if too hard add a teaspoon of milk.

Boil one large cup of light brown sugar and a little water long enough to become fairly firm when dropped in water when testing it.

Have ready one tablespoon sweet cream and one tablespoon of butter in a dish and pour the boiled sugar over it. Beat till cold, or till it is thick enough to spread on the cake.

Chocolate Frostings—Melt three squares of chocolate; when soft add one tablespoon hot water, then one egg well beaten, one cup powdered sugar; flavor with vanilla. This is enough for a three-layer cake.

Chocolate Cream Frosting—Take pulverized sugar, moisten with water, stir till very smooth; don't put in too much water, make just a good cream. I sometimes put on the white frosting and then put in a little chocolate and put on top of white. Flavor with vanilla; tastes like chocolate creams. This is an original recipe of my own.

Easy Frosting for Cake—One and one-half tablespoons sweet milk or cream and enough pulverized sugar to make it stiff enough to spread easily; will frost one cake.

Eggless Frosting—Teaspoon powdered gelatin, three tablespoons hot water, one cup sugar; soften gelatin in cold water (about two tablespoons), then pour over the hot water. If not dissolved put on stove until it is, then put in sugar and beat hard until light and white; lemon juice assists this. I always use this recipe for icing. It is always good and more satisfactory than egg frosting even when eggs are cheap.

Maple Filling—Boil a cup of good maple syrup till it hairs, or is brittle in cold water. Stir it into the beaten whites of two eggs, add chopped nuts and raisins. It makes a delectable filling.



OUR CHEERFUL CHAPS

The Pess-Optimist: "Wot a life! No rest, no beer, no nuffin. It's only us keepin' so cheerful as pulls us through."

Old Dutch



quickly and thoroughly cuts milk clots and scummy accumulations from milk pans and pails—No greasy film left on the article cleaned.



VANCOUVER VICTORIA NEW WESTMINSTER

Special Excursion Fares

DECEMBER JANUARY FEBRUARY

See the Canadian Pacific Rockies In Their Winter Garb and the New Connaught Tunnel

Full particulars from any agent of the CANADIAN PACIFIC RAILWAY (Standard Road of the West)

City Ticket Office, Corner Main and Portage, Phone M 370-1
Depot Ticket Office M 5500, and 663 Main St. Phone M 3260

SHARES FOR SALE

Shares for Sale in Manufacturing Company, established 21 years, which has paid 55% in dividends during the last five years, and 50 per cent in stock.

PENDER, COOPER, SLASSOR & CO.,
Chartered Accountants,

356 MAIN STREET, WINNIPEG

TRAPPERS Ship your furs to the house that pays you what they advertise in their price-list. Remits you the day your shipment is received. Charges you no commission and refunds you the express charges where they do not exceed 10% of shipment. We do this and more.

Write for Trappers Guide No. 16 and price-list today. Northwestern Hide & Fur Co., Minneapolis, Minn., Est. 1899.

Get a Farm of Your Own
TAKE 20 YEARS TO PAY

The land will support you and pay for itself. An immense area of the most fertile land in Western Canada for sale at low prices and easy terms, ranging from \$11 to \$30 for farm lands with ample rainfall—irrigated lands from \$35. Terms—One-twentieth down, balance within twenty years. In irrigated districts, loan for farm buildings, etc., up to \$2,000, also repayable in twenty years—interest only 6 per cent. Privilege of paying in full at any time. Here is your opportunity to increase your farm holdings by getting adjoining land, or secure your friends and neighbors. For literature and particulars apply to

ALLAN CAMERON, General Supt. of Lands, Desk 17, Dept. of Natural Resources, O.P.R., CALGARY, ALTA.

SYNOPSIS OF CANADIAN NORTHWEST LAND REGULATIONS.

THE sole head of a family, or any male over 18 years old, may homestead a quarter-section of available Dominion land in Manitoba, Saskatchewan or Alberta. Applicant must appear in person at the Dominion Lands Agency or Sub-Agency for the District. Entry by proxy may be made at any Dominion Lands Agency (but not Sub-Agency), on certain conditions.

Duties—Six months residence upon and cultivation of the land in each of three years. A homesteader may live within nine miles of his homestead on a farm of at least 80 acres, on certain conditions. A habitable house is required except where residence is performed in the vicinity.

In certain districts a homesteader in good standing may pre-empt a quarter-section alongside his homestead. Price \$3.00 per acre.

Duties—Six months residence in each of three years after earning homestead patent; also 50 acres extra cultivation. Pre-emption patent may be obtained as soon as homestead patent, on certain conditions.

A settler who has exhausted his homestead right may take a purchased homestead in certain districts. Price \$3.00 per acre. **Duties**—Must reside six months in each of three years, cultivate 50 acres and erect a house worth \$300.

The area of cultivation is subject to re-duction in case of rough, scrubby or stony land. Live stock may be substituted for cultivation under certain conditions.

W. W. CORY, C.M.G.,
Deputy of the Minister of the Interior
N.B.—Unauthorized publication of this advertisement will not be paid for.—442824

There's a Reason

We would be glad to send you our booklets, prices and particulars of any of the undermentioned goods, if you will kindly place an X against any you are interested in. We know we can sell you these Articles at a less price and give you better quality, and at the same time give you more money for your HIDES and FURS than any house in Canada.

- Harness, Halters and Leather
- Ladies' Hudson Seal and Muskrat Coats
- Tanning Hides and Furs for Robes, Coats, Rugs, or Lace Leather
- Mounting all kinds of Game Heads and Birds
- Prices of Hides and Raw Furs

Wheat City Tannery
Tanners and Manufacturers
BRANDON, MAN.

CONTEST NOTES

Remember cash must accompany your estimates, otherwise you are not eligible to enter either competition. If your subscription has not expired you can still enter, the money you send in will be put to your credit, and your subscription will be extended ahead from the date it is due to expire.

Strange how fashion makes us change the things that we desire, We used to sing the tireless steed—it's now the steedless tire; We like to spin on improved roads—old Dobbin is antique, And a man to be in fashion ought to auto—so to speak.

WOULD NOT BE WITHOUT IT

"As I have not room for my estimates on the subscription blank clipped from The Canadian Thresherman and Farmer for my estimates, I am sending same on a sheet of plain paper. We have taken The Canadian Thresherman ever since it was started, and our last subscription was paid up in 1910 when we counted the wheat in 12 lbs. of No. 1 Northern wheat. I am again renewing for another five years term, and can say that we have been pleased with the paper in every way and would not be without it."

(Signed) WM. E. BRIGGS,
Sedalia, Alta.

Do not overlook the \$250 prize contest featured in this issue by Motor and Sport. The winner will receive an order on the J. H. Ashdown Company, of Winnipeg, for that sum, and can select anything he desires. Here is a splendid opportunity to equip your car with new tires, or any kind of accessories. If you are interested in sport you can select a complete sporting outfit from a shot gun or rifle down, or, if you so wish, you can turn the \$250 over to your wife for a power washing machine or any other household utility she may wish to have. Here is a chance to kill two birds with one stone as it were. Enter both contests, for you are estimating on the same bottle of wheat in each case.

WHAT SHALL I BUY?

As Christmas approaches people grow more and more undecided as to what kind of gifts they will give their friends,

WHY WORRY!

Since every Western Farmer must read at least one reliable farm publication and at least one good out-door magazine, these papers become a necessity—nothing less.

You appreciate good papers; so do your friends. They are the most appropriate tokens of greetings and message of good will for the holiday season.

Why not make a present of a subscription to Motor and Sport and the Canadian Thresherman and Farmer to your farm friends, and at the same time enter two of the most unique prize contests ever featured by any magazine in this Western country for no additional cost?

Turn to pages 4 and 53 of this issue where you will get full particulars re these competitions. You receive the estimates yourself with a chance to win the grand prizes, while your friends will receive two of the best publications in their own particular line in the Dominion.

The Announcements referred to will solve your Gift problems. Turn to Pages 4 and 53 now.



HANGING ON TO A GOOD THING.
"See 'ow angry the waves are, Jim. They look just as if they was acclamouring for something, don't they?"
"Well, they ain't going to 'ave it—not if I can 'ang on to it any'ow!"

REFINED MADE IN CANADA
ALL THE NEATNESS AND STYLE OF THE FINEST LINEN MAY BE YOURS IN
CHALLENGE COLLARS
—THE MOST DESIRABLE WATERPROOF COLLARS ON THE MARKET—
AT YOUR DEALER'S, OR DIRECT—
25c

THE ARLINGTON CO. OF CANADA, 35-36 FRONT ST. TORONTO

STOVEL COMPANY Limited.
The high-class Engravers
WINNIPEG:
PHONE G. 1600.

Myers Tank Pumps
ARE EASIEST TO OPERATE
The Patented Cog Gear Head on Myers Tank Pumps, saves one-third of the operating power. This will be appreciated by threshermen, for using one of the old style pumps is tiresome work. The valves are located under removable, individual caps, where they can be easily reached. Waterways are large, allowing a free passage of the water. Valves are of the poppet pattern with brass seats.

Write for booklet.
F. E. Myers & Sons
Ashland, Ohio.
Ashland Pump & Hay Tool Works

Well Drills
For Drilling
WELLS or BLAST-HOLES
Built to stand up under heavy work. Most economical and rapid drills made. Styles and sizes for all purposes, with or without power.

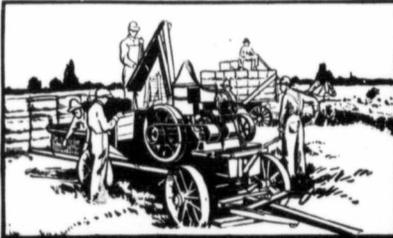
Write for Circular
WILLIAMS BROS.
428 West State Street, Ithaca, N.Y.

Strite Variable Speed Governor
Is the best by every test for running cream separators, washing machines, lanning mills, or any light machinery. More cream separator driven by Strite Governor Pulleys than all others combined. **THEIR'S A REASON—ASK US.**

STRITE GOVERNOR PULLEY CO. 8. BRD ST., MINNEAPOLIS

TOP PRICES FOR HIDES and FURS
We are buyers and exporters of Hides and Furs and give highest prices obtainable anywhere for them.

Write for **OUR PRICE LIST**
THOMPSON COMMISSION CO.
316-18-20 Hargrave St. WINNIPEG



Cushman Light Weight Engines



8 h.p. 2-Cylinder Cushman mounted on hay press. Engine weighs only 320 lbs. This engine may be mounted on iron truck and pulled around by hand.

Weigh only 40 to 60 lbs. per horsepower.
 4 h.p. weighs only 190 lbs.
 8 h.p. weighs only 320 lbs.
 15 h.p. weighs only 780 lbs.
 20 h.p. weighs only 1200 lbs.

4 h.p. Cushman on iron truck, with water cooling tank and gasoline tank in front. Engine weighs only 190 lbs. Easy to pull around from job to job.

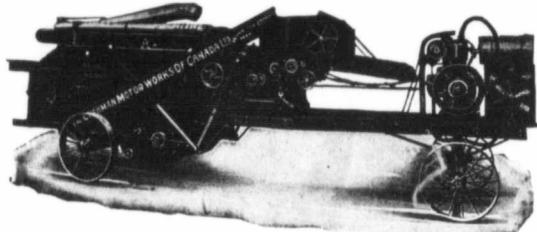
For All Farm Work—4 to 20 H.P.

Cushman 4-Cycle Engines are the All-purpose Farm Engines, 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, as well as for all other farm work.



CUSHMAN COMBINATION THRESHER

Equipped with the famous Cushman 2-Cylinder Engines.

8 h.p. with Straw Carrier and Hand Feeder.

15 h.p. with Wind Stacker and Hand Feeder.

20 h.p. with Wind Stacker and Self Feeder.



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.

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

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.

From Alberta

Alex. Irving, Cummings P.O., Vermilion, Alberta, Canada, writes:—"I feel it is my duty to write and tell you how my engine is doing. I have been sawing wood lately, and it has been working fine; no trouble to start whatever. I am running an 8-inch L.H.C. grain grinder with it, and it handles it nicely. I have put in a line shaft and run the churn, washing machine and cream separator. The Cushman is good for either light or heavy work. Everyone that sees it thinks it is the only engine, and want to know where they can get one like it."



The Lincoln Smut Cleaner and Pickling 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 seed 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 drainer-sieve at tail of machine, ejecting same, while drainer-sieve at tail of machine, ejecting same, while wasting none of the pickling solution. Capacity 30 to 75 bushels per hour.

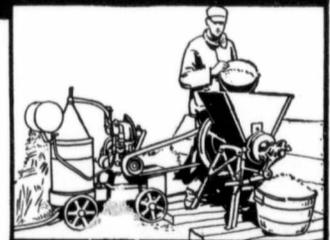
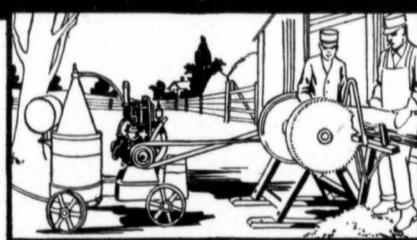
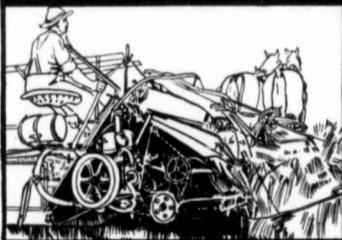
Cushman Motor Works of Canada, White & Vine Streets, Winnipeg.

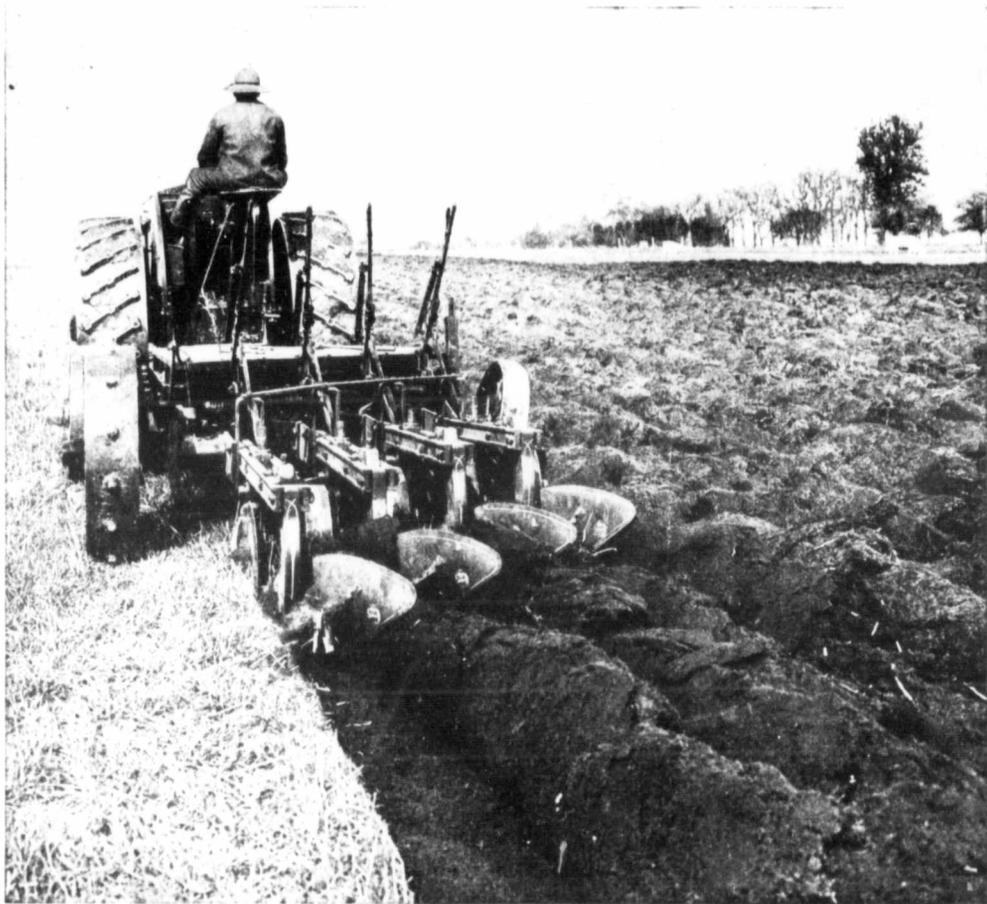
Builders of Light Weight Engines for Farm and Binder use. Distributors of Reliable Power Driven Machines, such as Fanning Mills, Grinders, Saws, Power Washing Machines, etc. Also Barn Door Hangers and Mountaineer Neck Yoke Centers.

4 h.p. Cushman on binder. Saves a team during harvest, and in a wet season it saves the crop. Same engine used for all other farm work.

4 h.p. Cushman on hand truck makes an ideal little sawing outfit. Besides doing all other farm work, same may be used on a binder to save a team.

This is the same little 4 h.p. Cushman outfit attached to a grinder. The Cushman is the All-purpose farm engine, because its light weight makes it possible to move it around so easily from job to job.





Here are the Reasons Why Farmers are Choosing Case Gas Tractors

The demand for Case Gas tractors this year is far in excess of the supply. Why? Because cautious farmers want reliable machines built by a reliable concern, backed by experience, reputation and service. Our 24 years of gas tractor experience, our reputation of 74 years of building the very best machinery, our organization of 44 branch houses in all parts of United States, Canada, Europe and South America is your guarantee of the very best money can buy.

CASE

WORK AND ENDURANCE NOT PRICE DETERMINE VALUE.

The design of the tractor, the materials of which it is built, and the company building it determine the work it will do, and how long it will last.

CASE HAS BUILT FOR THE FARMER SINCE 1842:

Next year we celebrate our Seventy-fifth Birthday. Three-quarters of a Century—Think of it! We have lived and prospered only because we have made machinery that has made good with its users.

CASE BUILDS 97% OF ALL PARTS USED IN CASE TRACTORS:

As a chain is no stronger than its weakest link, so a tractor is no stronger than its weakest part. With 97% Case made and the 3% subject to Case Laboratory tests, you can rely absolutely on



The Sign of
Mechanical
Excellence
the World Over

the genuineness of every detail of a Case Tractor.

THE STANDING OF THE CONCERN WHOSE TRACTOR YOU BUY:

You cannot take your tractor down, piece by piece, and see every part. For most of it you have to take some one's word. Let the reputation of the company be your guide to those things which you cannot see.

WHICH TRACTORS WILL BECOME ORPHANS?

A leading agricultural paper one year ago said—"The good tractors can be counted on the fingers of one hand." There were then more than one hundred different makes. Now there are even more. With any Case machine you can always be sure of service. Remember our forty-four big branch houses throughout the country. Better be Safe than Sorry.

U. I. CASE T. M. COMPANY, Inc.

720 Liberty St.

Racine, Wis.

Canadian Branches: Winnipeg, Toronto, Calgary, Regina and Saskatoon