

The **CANADIAN** THRESHERMAN AND **FARMER**

WINNIPEG CANADA

NOVEMBER
NINETEEN FOURTEEN

BETTER FARMING — BIGGER CROPS — BETTER PRICES



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

Good Luck Horse Power and Grinder

One of the most profitable and convenient articles for farm use is a Good Luck Horse Power with Grinder Attachment. It can be used to grind all kinds of small grain with its own grinder attachment.

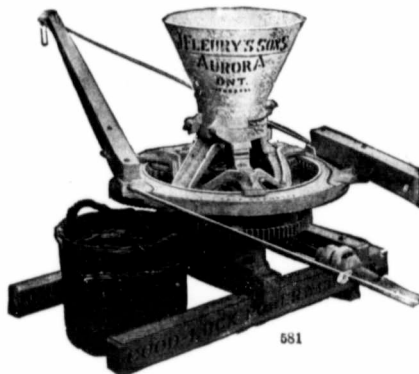
Grinder Removable

The hopper and grinder head can be easily removed and the horse power used for other purposes, such as sawing wood, operating feed grinders, or any other light running machine.

Convenient and Serviceable

With hopper and grinder head removed, the Good Luck triple gear can be used to operate any machine that requires two or four-horse power to drive.

It can be used to operate the Rapid Easy Grinders and Straw Cutters that are driven by rod drive, or with speed jack connected to tumbling rod and belt running from jack to whatever machine it is desired to operate.



Fleury Rapid Easy Grinder

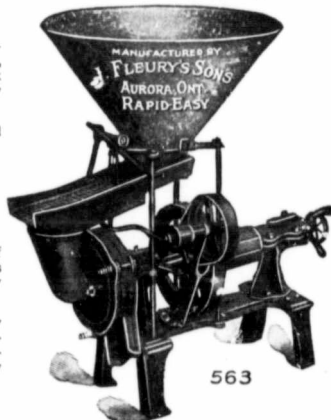
The Fleury Rapid Easy Grinders are the most economical, as they will do more work with the same power than any other style of plate grinder.

They are the most improved and efficient.

Thoroughly Constructed

Only the highest quality of steel is used. Journals, boxes and all parts are accurately fitted together.

In every respect the Fleury line represents the best material, workmanship and appearance and will give every user satisfactory service.



No. 3 Rapid Easy Grinder is only one of many sizes.

Fleury Grinders are built to meet the requirements of every farmer—with 8, 10, 11, 12 or 13-inch plates, operated by rod or belt drive.

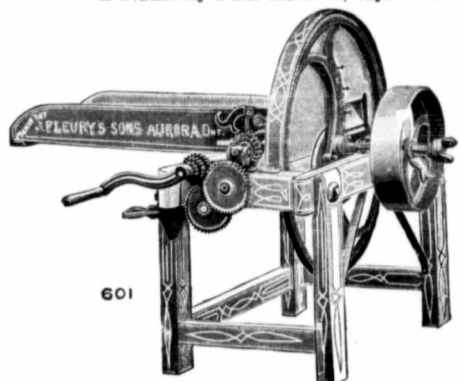
Plates

The plates are the most important part of the grinder. The results obtained depend on the plates.

The Rapid Easy plates are made of the hardest and most durable material obtainable. A file will not mark them. They are made in various degrees of fineness in the corrugation.

Fleury Straw Cutters

A Staunchly Built Machine, capable of a Large Amount of Work



Fleury Straw Cutters are simpler in construction and do more work with less power than any other machine of their kind.

The No. 4 Cutter is of large capacity. It will cut up to one and one-half tons of hay an hour. May be operated by rod or belt drive or by hand with two cranks, one at the end of the machine and one on the front end of the main shaft.

Feed rollers can be stopped, set in motion, or reversed instantly. It has a twelve-inch mouth and is made to cut several lengths of straw.

Many Sizes

Fleury Straw Cutters are built in many sizes from the 8-inch hand lever machine to the large ensilage machine with steel carver and elevating pipe cutting and elevating from 7 to 15 tons per hour.

Ask your John Deere dealer about these machines

For further information write us. Get our Catalogue of Stock Raiser's Implements

John Deere Plow Company Limited

WINNIPEG REGINA SASKATOON CALGARY LETHBRIDGE EDMONTON

Live Stock

The necessity of combining stock-raising and grain farming should be emphasized for two very good reasons. First, fodders and coarse grains converted into meat and dairy products bring to the farmer greater returns than if the feeds were sold on the market. Second, eighty per cent of the fertility required to make the feeds are returned to the soil if products are fed to live stock and the manure applied to the land.

Profitable feeding and caring for live stock, however, is a science requiring knowledge and skill to even a greater degree than producing crops.

Many farmers say it does not pay to raise stock. But experience proves that it does pay.

The domestic and foreign demands for meat are increasing. The cost of feed is becoming greater and the cost of producing meat is increasing correspondingly.

By making the land produce greater yields of forage and grain, more animals can be fed in proportion to the number of acres available.

By feeding judiciously, they can be turned off sooner, enabling the feeder to turn his money over more rapidly.

Judicious feeding will also produce gains more economically than feeding by guess.

Many foods are more completely digested when fed in combination with others than when fed alone. Not only this, they often exert a beneficial effect upon the remainder of the mixture or ration.

These desirable mixtures or balanced rations should be carefully worked out, for successful feeding depends not only upon the selection of the right type of animals, but also upon feeding a ration suitable to their ages and digestive capacities.

There has been much discussion as to whether it is better to feed grain whole or ground.

GRAIN SHOULD BE GROUND

It is a sure thing that grinding does not add anything in the way of food elements, but the fact remains that many grains have a hard outer coating which is difficult for animals to crack.

Many kernels of corn, oats, etc., get by the teeth without being cracked and pass through the stomach without being digested. The grain waste in this way often amounts to a considerable per cent of the quantity fed. The only way to utilize this waste is to let hogs follow, if cattle are being fed. Ground grain is more easily digested and undoubtedly completely assimilated.

Often animals have poor teeth or their teeth become sore from eating hard grain like ear corn and are unable to chew whole grain properly. This is known to be true, especially with horses.

PURE WATER IMPORTANT

Pure water is a very essential factor in animal growth and health. Dirty troughs, mud-holes and stagnant streams tend to disorganize the digestive system and encourage diseases. Hog cholera is often transmitted to healthy hogs by drinking water from a contaminated stream.

The free drinking of water does not diminish the gains of animals nor increase the breaking down of protein in the body though flushing the intestines with much water may at first cause a more complete removal of the nitrogenous waste therefrom. With animals which continue to drink freely, the nitrogenous waste soon becomes normal again. Scientists now agree that farm animals should have all the water they will drink, for they do not take it in excess unless they are forced to live on watery foods or are given salt in their water.

Water taken into the body must be raised to the temperature of the body.

Warm cold water taken into the body does not necessarily mean that more food must be burned, for animals evolve a large amount of heat in the work of digesting food and converting the digested matter into body products or work. Due to this, many animals have an excess of body heat. Comfortably housed and well-fed steers and dairy cows burn more food than is needed to keep their bodies warm, and such excess may go to warm the water they drink, so that no food is directly turned for that purpose.

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CLEARANCE

Just a few of each of these premiums left over from our regular offers. They represent the best we ever had. Any one listed here would make a splendid Christmas Gift. They won't last long at these give-away prices. Better decide to-night. If you are already a subscriber we will extend your subscription from the end of the present one. Just cut out the offer that appeals to you most, write your name and address on the edge of it, pin your remittance to it and mail—but you must hurry! We will send your money back if the offer you want is sold out. Remember, every offer shown here includes the Canadian Thresherman and Farmer—your magazine—for THREE WHOLE YEARS. Will you attend to this now?

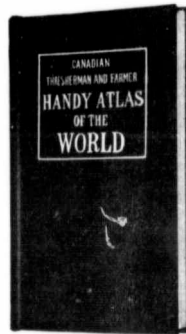
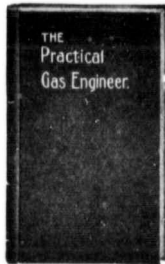
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The Practical Gas Engineer

Contains 175 pages of practical instruction on all classes of Gas Engines, covering 500 different points on the subject, with illustrations, giving errors to be avoided in the construction of, and how to erect, operate, and care for Gas Engines and motors of every type. Cloth bound, pocket edition.

Practical Gas Engineer	\$1.00	1.95
Canadian Thresherman and Farmer, THREE YEARS	3.00	
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HANDY ATLAS OF THE WORLD

A splendid reference to all countries of the world, includes all war maps, also the principal cities are listed, and a quantity of other information pertaining to the different countries. Nicely bound in red cloth covers.

Handy Atlas of the World	\$1.00	1.95
Canadian Thresherman and Farmer, THREE YEARS	3.00	
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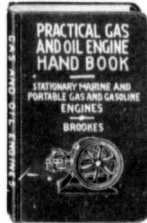
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PRACTICAL GAS AND OIL ENGINES

This book is along the same lines as the Practical Gas Engineer, but is much more complete and includes Oil Engines. It gives Gas Producers, Valve adjustments, methods of ignition, cooling apparatus, etc., shows how to take diagrams and calculate results from them. A really first class book.

Practical Gas and Oil Engines	\$1.50	2.20
Canadian Thresherman and Farmer, THREE YEARS	3.00	
	\$4.50	



\$4.50 for only **\$2.20**

TABOR SPEED INDICATOR

The urgent need of a good, simple stop motion, revolution counter, that can be put to any use that the highest class of indicator can be used for, has brought out this little instrument. This is very handy to the engine owner, and thousands have been sold in Western Canada.



Speed Indicator	\$1.50	2.20
Canadian Thresherman and Farmer, THREE YEARS	3.00	
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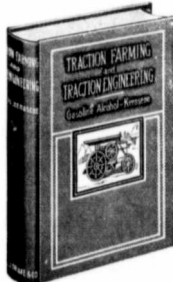
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\$5.50 for only **\$2.50**

TRACTION FARMING AND TRACTION ENGINEERING

Gives you the workings of nearly every tractor built and illustrates them. Also shows farm water supply diagrams, electric lighting systems, etc. The science of threshing fully explained. See page 3 of our October number.

Traction Farming	\$2.50	2.50
Canadian Thresherman and Farmer, THREE YEARS	3.00	
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\$5.50 for only **\$2.50**

POWER AND THE PLOW

Covers all the sources of farm power, the types of traction, the horse, fuels, etc. It tells you how to operate your tractor so as to make it pay. It is just the book you have been looking for. It brings you the latest in power farming—in fact it is an exhaustive treatise on the subject. If you own a traction engine you need this book. If you intend to own one, get it and become posted.

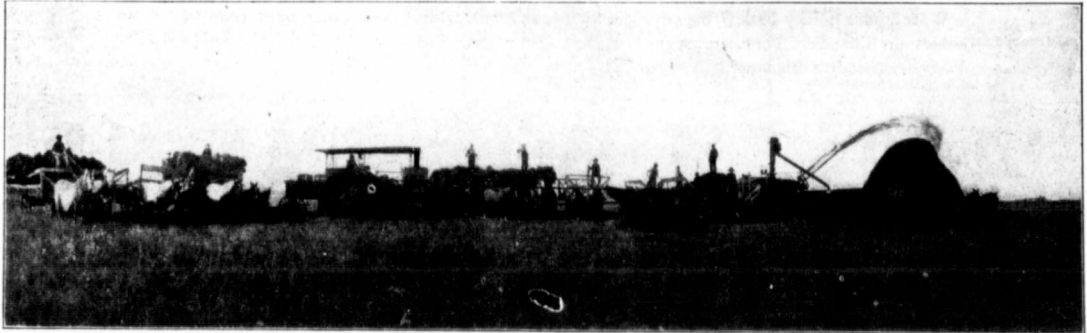
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Send all Coupons to E. H. HEATH CO. LTD., WINNIPEG

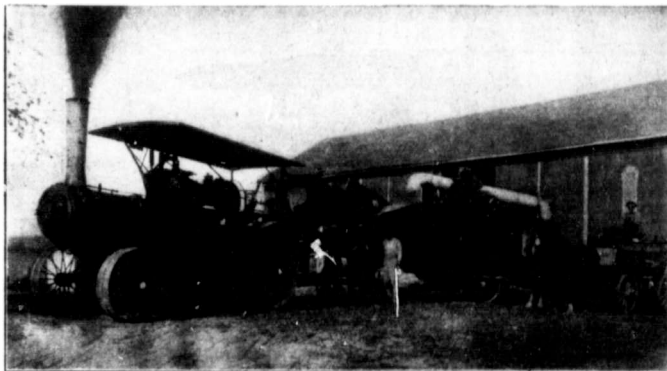
You saw this advertisement in this magazine. Don't forget to say so when writing.

Thanks to that "Starved Rooster" Outfit It Has Made Me Prosperous!



The time for Thanksgiving is here and everyone should have something to be thankful for. Operators of threshing machinery should be especially grateful this season because of the bumper crops just garnered. If prosperity has not been with you it is because you did not operate the right kind of machinery—machinery that has ability to handle to perfection a vast amount of grain in a brief period of time at little or no expense or delay. Operators of the Famous Aultman-Taylor "Starved Rooster" Line have every reason to be thankful. They're mighty glad that they possess such good all around threshing machinery. Now they're closing the biggest runs in their history and it's been profitable business too. But you need not be discouraged. It isn't too late for you to share in this prosperity. Make up your mind to-day that you're going to be a successful and prosperous thresherman. Own and operate a Famous Aultman-Taylor "Starved Rooster" Outfit and you'll be recognized everywhere as a prosperous and up-to-the-minute thresherman. Aultman-Taylor Threshing Outfits are the acknowledged best everywhere.

We are glad to announce that we have shared equally well with our customers in this prosperity. We take this opportunity to thank you for your liberal patronage and for the confidence placed in us and our machinery. We have every reason to believe that the Old "Starved Rooster" Line of Machinery will enjoy even greater prosperity in 1915. Our best wishes are with our many customers, and customers to be, for a successful and profitable run next season.



The first step toward being a successful Thresherman is to send for Big, Free Catalog. It contains a whole lot of detailed information about this Famous Line of Machinery. Send in your name to-day.

THE INTERNATIONAL HARVESTER COMPANY OF CANADA, LIMITED, Canadian Sales Agents for
New Century Separators

The Aultman & Taylor Machinery Company
Lock Box No. 64, Mansfield, Ohio

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

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General Solicitors in Canada for the National
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General Solicitors in Canada for the American
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General Solicitors in Canada for eight Thresher
and Implement Companies, and in addition for
Six Thresher and Implement Companies in
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INSURANCE**

- LIVE STOCK
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- Accident
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- Automobile
- Plate Glass
- Liability
- Bonds
- Tornado

WRITE FOR AGENCY

**Pace, Harrison & Millar
Ltd.**

General Agents, Winnipeg



**The Right
Lads for
Farm Life**

are being sent out by the Bisley Farm
and Shaftesbury Homes in the county
of Surrey, England, and the Twickenham
Home, Middlesex.

**Their Majesties the King
and Queen**

are patrons and the Earl of Jersey,
G.C.M.G., is president of the Society of
which the above named homes are units
specially equipped for the training of lads
for farm life.

The work of the Society is an imperial
one and for many years it has been
supplying lads of excellent character and
physique to the farms of the Dominion.
About 1,600 are now settled at various
points in Canada.

Mr. H. G. Copeland, the Secretary, who
has recently been on a tour through
Canada, will be glad to receive donations
towards the Society's work at the head-
quarters, 164 Shaftesbury Avenue, London,
England, or they may be sent to the editor
of this paper.

**You cannot interest
yourself in a more
worthy institution.**

Stephens
Varnish Stain
The Housekeeper's
Delight
DRIES OVERNIGHT

Can You Classify Him?

YOU saw with the naked eye that he was as hopeless
as a hoboe. You might as reasonably expect apple
blossom in mid-winter as the price of that fellow's
subscription to any farm paper!"

"That fellow" is a Western Canadian farmer,
typical of a very large number known to us and to our
friends who really get about to see things for themselves.
He is as full of war as a field-marshal, but regarded agricul-
turally—he is the worst "weed" on the farm.

By request, a responsible Winnipeg citizen recently
sent as hired man to this genius, a strapping, intelligent
young man who had put in several years of hard work on an
Ontario farm. The farmer had specified this particular type
of man and covenanted to pay him so much a month on the
basis of a year's contract.

At the end of a month his boss complimented him on
his work but regretted to say he couldn't keep him. A poor
crop left no margin of cash to pay for hired help throughout
the winter, and the young man had to hit the trail for the
city once more after a month of the hardest sledding he had
ever enjoyed since he left school.

"When a feller needs a friend," there is never any lack
of soft-hearted neighbors in Western Canada to help him
out of a hole, but we are not begging a tear of sympathy for
this man with the poor crop, and here comes the point of
our story.

This "farmer" owns and is operating single-headed two
quarter sections while performing homestead duties on a
THIRD some seven miles off! The wastage of product and the
general filth incident to this man's "farming" are indes-
cribable, we are told—how could it be otherwise?

Now we ask in all seriousness is not this a case for
interference under the homesteading act? We are assured
that the improvidence and mismanagement of this man is
largely characteristic of the neighborhood. Why should men
be allowed to acquire and dissipate any portion of the
country's gift in this way?

What sense is there in the great slogan of "better farm-
ing" and "every available acre under crop for 1915" in the
face of this wholesale land-grabbing by men who haven't
the means to handle it? Who would lend a helping hand to
a wastrel like this?

Haven't we got some very drastic noxious weed
statutes? Is there any prospect of getting something
stronger than "moral suasion" to deal with those men of
insatiable greed who are positively greater soil drifters than
any wind that ever blew across the prairie?

This is just one of the oddments of experience we run
up against in taking our walks abroad. It would become
very depressing were it not that we also meet with so much
to off-set it. Can any long-headed reader outline a scheme
that would have some weight in dealing with conditions
such as we have described?



**Says Polly Pan,
"I always can
Be bright, with
due reflection,
Because I choose
to always use
Old Dutch for
my complexion."**



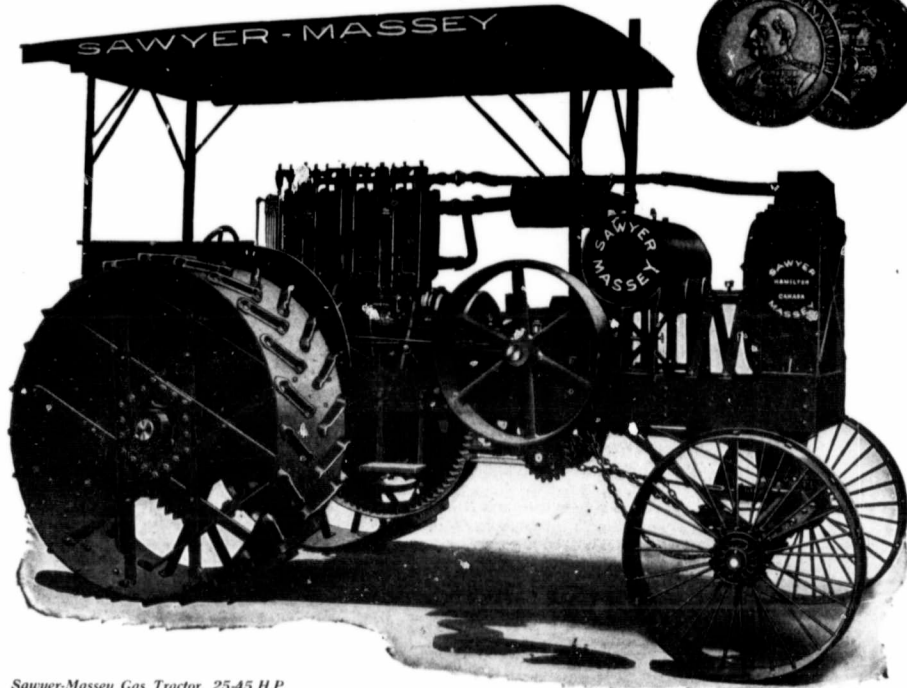
On written request we will send, free of
charge—a booklet, "The Spikanspan Folks,"
containing six beautiful colored prints espe-
cially designed for young folks.
"Old Dutch," 17 Macaulay Ave., Toronto,
Canada.

STOVEL'S MAPS
Dominion of Canada, Manitoba, Saskatchewan, Alberta,
British Columbia, Europe, Etc. Etc. ALL SIZES
STOVEL CO. LTD., WINNIPEG, CANADA



THE PREMIER COMPANY

THE PREMIER GOODS



Sawyer-Massey Gas Tractor, 25-45 H.P.

LARGER PROFITS NEXT YEAR

The demand for grain is increasing. Prices are high. The men who raised big crops this year are making large profits.

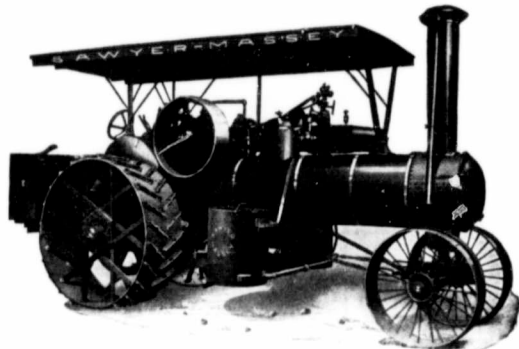
But what about next year?

Millions of men are fighting in Europe. Little grain has been planted there. Canadian grain must help feed Europe next year, more than it has in the past. The demand will be greater, prices high and profits large.

A big crop next year will mean money for you. You can't raise a big crop by hand especially if labor is scarce. To take full advantage of the high prices you need modern, efficient labor saving machinery.

A Sawyer-Massey Tractor will increase your crop and swell your profits. The Sawyer-Massey "25-45" Gas Tractor is a proven time and money saver. At the Winnipeg Contest last year it took the Gold Medal and first place. There are Sawyer-Massey Steam Tractors of many sizes to meet the requirements of every farm.

Investigate these tractors now while there is plenty of time. They will make money for you. A copy of our large Illustrated Catalogue will be sent you on request.



SAWYER-MASSEY COMPANY, Limited

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

Head Office and Factory HAMILTON, CANADA

Branch Offices and Warehouses: WINNIPEG, Manitoba; REGINA, Saskatchewan; CALGARY, Alberta; Agency, BUENOS AIRES, Argentina

SAWYER-MASSEY

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

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Vol. XIX.

WINNIPEG, CANADA, NOVEMBER, 1914.

No. 11.

WHILE the gas tractor builders are enjoying their breathing spell, it may interest them to know that there is no letting up in these days on the part of the farmers of Western Canada who are owners of this type of machinery and are able to run it.

"Able to run it" means that they have the necessary mechanical skill to run the machine or are in a position to employ a trained engineer. Weather conditions have been ideal for plowing since the crop was cut and there probably never was such a plowing season in Western Canada.

We have gone afield somewhat and wherever we have gone the hum of the gas tractor has been the one familiar note on the prairie, and no less welcome was the oft recurring sight of the billowing smoke of the steamer puffing away against the skyline.

Recent comments upon the subject of gas traction as a whole have been most entertaining not to say refreshing and we give one or two of these substantially as they have "come off the reel."

The Gas Engine Knocker

Number one (a stock-breeder exclusively) declared with some warmth that "Winnipeg Motor Contests and some of the slick salesmen of the gas tractor companies had put more men on the bum than any calamity that had ever overtaken the country!" That is rather hard on the salesmen and the public spirited men who promulgated these contests, but what else could be expected?

There never was a new departure from the jog trot in human progress that did not have its

The Fuel Factor in Power Farming

camp followers of calamity howlers. No forward step was ever taken in designing and fashioning things that men use in the serious business of their lives that did not record many failures and

had the brains to run them. This largely, because it had become "the thing" to own an engine and because some of their neighbors were making a big splurge as power farmers.

accident some years ago else he had been in the battle-front in Europe at this moment. But his maimed condition is no impediment to his farming operations.

He owns a 25 h.p. gasoline-kerosene tractor, paid for within a week of delivery on the farm. We saw it start its second season's work last spring and we saw it again a few days ago scurrying over the plowed field with a load of discs and harrows behind at a pace that looked like a battery of field artillery galloping into action.

Number three said he knew about as much of the outs and ins of a gas engine as a certain Irishman knew of anatomy. "But then you see the boys wanted one, so I humored them and by gum she's paid me right enough." Now "the boys" in this case also "loved" the engine. One of them "did time" at Manitoba Agricultural College and the other attended a complete course at one of the schools held the winter before last. Good boys, they would not let the old dad



Power in Plenty and Perfect Alignment.

tragedies in its experimental period—always an exciting stage.

The hysterical era of the gas tractor has passed. No doubt it has been an expensive time for many, but even our hard hitting "Shorthorn" friend admitted that the victims themselves were largely to blame. He paid this magazine the compliment of having "touched the spot" in that editorial of last April entitled "The Lure of Fashion."

In that particular article we affirmed that a large number of tractor owners had possessed themselves of engines before they had the money in sight to pay for them and still more before they

As we said then, we say now: a gas engine is a fine thing, one of the greatest things in the history of agriculture, but it cannot be everybody's plaything. It is pleasant to turn from these regrettable experiences, to forget them except as monitors for all future experiments, and to contemplate the fine record of success that is spread all around us.

Where Common Sense Wins

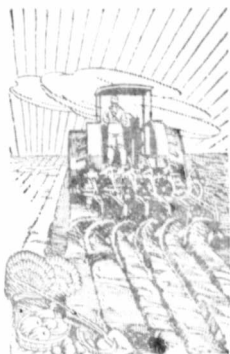
Number two is a young Frenchman, who, with his brothers, sisters and venerable mother are farming a section of land not ten miles from Winnipeg. He lost his left hand in a machinery

be saddled with anything of the kind till they or someone else "knew how."

From personal intercourse we could go on extending these testimonies at some length and we have still over a hundred unpublished letters on "Gas Traction by men who have done it"—all to the same effect. We have a few from failures as well and a spicely selection from men who consider that legislation should be formulated to "stop the sale and therefore the manufacture of gas engines!"

The Coming Power

The future is not an open book to anyone but if one might be



permitted to bank on any prospect it is that gas traction is coming into its own in Canada at a very early date, probably not later than the early spring of 1915. There appears to be no doubt that whatever the progress of this European war, there will be a record influx of real live cultivators from Great Britain, especially in the early months of next year.

That there will be a demand for power machinery from people who are bringing cash to pay for it we have no doubt whatever.

Another matter that is exercising the power-farming public is the question of fuel. Someone has written that the great war is being largely fought on gasoline. The supply of gasoline, it is feared, will soon shrink beneath the demand that is being created on all hands, and when it can be obtained the impression is growing that it will be obtainable only at a price which will shut it out from the programme of men who are not in it to farm at random.

But nature never seals a door without opening another. For a long time practical chemists have been trying to get at something else in the way of fuel which can be procured or manufactured at a reasonable cost, the supply of which can be depended upon while there is vegetation on the earth. Wood alcohol and other mediums are still merely the subjects of interesting laboratory experiments.

One effect of all this is that meanwhile kerosene is being strongly exploited and engine manufacturers are wisely turning their attention to construction features which are adaptable either to the burning of gasoline or kerosene, and in many cases with gratifying success. Indeed there are several kerosene-burning engines on the market that are giving entire satisfaction, but there are also quite a few that are far from being a success.

As kerosene is produced in much greater volume than gasoline from crude petroleum, the supply is not likely to run out for a long time, at least not until something has been finally pro-

duced that will out-class it as a fuel, the cost of which will not kill its utility in farm engineering. At the present moment there is a big over-production of kerosene which is taxing the tank capacity of the refiners and a market is being canvassed for this accumulated surplus.

Advantages of Kerosene

Kerosene has several advantages over gasoline as a fuel for farm engines. In the first place, in point of safety it does not vaporize at ordinary temperatures as does gasoline. The storage is therefore an easier problem and the loss from evaporation is practically eliminated.

Secondly, gallon for gallon, kerosene contains about 18 per cent more heat units than gasoline and of course heat units mean power, but it is only fair to say that the kerosene-burning engine has not yet been developed to such a high degree of perfection that it will actually deliver this 18 per cent more power over gasoline fuel. That is a bright spot still in the future of the manufacturer which may be reached before long as the result of the unremitting experiments which are being carried on.

Kerosene, as has been said, is safer than gasoline, being incombustible at ordinary temperatures, a fact which will appeal strongly to the farmer who is using or contemplates using oil power. The danger from explosion that always exists where there is gasoline is practically nil and fire risks are therefore greatly reduced.

Kerosene is much cheaper than gasoline because it is much more abundant than gasoline. (Only about 5 to 10 per cent of the crude oil refines into "commercial gasoline"). Several years ago gasoline was a drug on the market, large quantities of it being burned in the open air to get rid of it, but to-day the demand for it exceeds by far that of any other petroleum product. The price of gasoline has risen while kerosene has been lowered.

Its Uniformity

Kerosene is more uniform in quality than gasoline. There is considerable variation in the gravity of the gasoline as we now find it, due to the measures that are resorted to in trying to keep pace with the heavy demand for this particular product. On the other hand we find kerosene quite uniform (a big advantage where it is used in farm engineering) the fact being that the existing laws are very stringent as to regulating the quality of kerosene.

Of the disadvantages of kerosene, there is the fact that it is more difficult to change into a combustible vapor than gasoline and also the circumstance that it has a tendency to form a carbon

deposit in the engine cylinder unless proper precautions are taken to prevent it. More skill on the part of the operator is required to handle it, but the man who can operate a gas engine successfully on gasoline fuel will find no insuperable barrier in handling kerosene.

But the advantages we have pointed out for the cheaper oil it will be noted are all economic advantages. Whether he is using a stationary or portable engine, tractor or motor of any sort, every power farmer is interested in reducing his fuel expenses to the minimum. To the prospective engine purchaser we would respectfully offer the advice: study this "burning question" before you buy, and in the end it is highly improbable that you will regret investing your money in a kerosene engine. There are good reliable ones now on the market, but be might particular that you don't get one of the other kind.

Some Experiments

Experiments that have been going on for some time have brought out some very interesting problems. For instance, one operator who has succeeded in running his gasoline engine on kerosene complains that his machine works pretty well on kerosene when he has a full load on it, but it fails or is very irregular and unsatisfactory when running on partial or on no load at all. He cannot account for this but if he will stop to consider, it may be got at in this way.

Kerosene is composed of heavier vaporizing particles than gasoline and therefore will not mistify or mix readily with air at average temperature. Considerable heat is necessary to break up and vaporize the kerosene particles before a combustible mixture with the air results.

When an engine is running under full load the heat in the cylinder is kept up to a high degree by the successive firing of the kerosene particles so that they will burn up tolerably clean and leave only a reasonable quantity of carbon, most of which is exhausted in the regular way.

But when the engine is running only on a light load the cylinder cools down much more rapidly and cannot maintain a heat sufficient to vaporize a liberal percentage of the kerosene particles. The result is irregular ignition and incomplete combustion of the charges ignited. It is therefore apparent that one may expect some difficulty in operating a gasoline engine on kerosene without some special preparation for all loads.

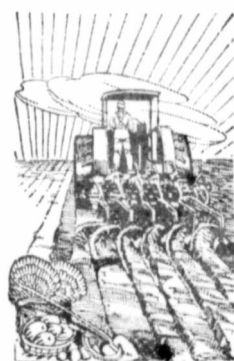
Under a full load no change in carburetor may be necessary. In fact under a light load some operators have succeeded by throttling

the cooling circulation so that the water in the cylinder jacket is kept at or near the boiling point. By this means a vaporizing temperature is held in the cylinder and the kerosene is broken up by the heat to the point where it will mix and blend promptly with the air to the ignition and combustion point.

Another method that has proven successful in the hands of certain operators is that of mixing with kerosene from one-fourth to one-third gasoline. This adds enough of the lighter gasoline particles to cause a sufficient saturation of the air inhaled to insure regular ignition, even when the engine is under only a partial load. Those who are the owners of gasoline engines and who are experimentally inclined, may, by following these suggestions, succeed in using kerosene at least to a considerable extent, if not entirely, and thereby gain a valuable experience as well as to add from four to five cents to their pocket-books for every gallon of fuel used. It should not be expected, however, that absolutely clear sailing to success will be their portion. Each case may require some special manipulation which will improve the process and which will suggest itself to the wide-awake attendant.

These hints are offered for the benefit of those operators who desire to try out their engines on their regular gasoline fixtures. It is of course understood that the engine should always be started and heated up on gasoline, then by a kerosene fuel valve arrangement or connection the kerosene may be turned into the carburetor, and the gasoline slowly turned off.

When kerosene is used, more carbonization may be expected and one must be on the lookout for valve choking and seating of spark plugs. If denatured alcohol can be had at a reasonable figure, a pint to the gallon of kerosene may make a cheaper fuel than gasoline and also cause a clean combustion and prevent the deposit of carbon, which is so common when kerosene is used alone



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WE come back again to the subject of our article on "Army Remounts" published in the September issue. We have been reminded every day since that matter was written that it is going to be "A long way to Tipperary"—a longer way round than some of us had figured on at the outbreak of hostilities.

But far from being discouraged, this prospect of a longer scrap than we had counted on presents some very reassuring features. With the fact steadily in view that it is to be a fight to a finish—that there will be no letting up while the "enemy" shows a head above water, it is very satisfactory to find that the purpose of the allied command seems to be to save men's lives, to reach the great end by attrition rather than by homicidal attack.

No one can preserve his cake and eat it too. If nervous impatience demands that it shall be "all over by Christmas," then possibly that might be accomplished at a sacrifice of human life that posterity would never forgive no matter what the terms of peace might be.



The Right Sort.

We have settled down with belief that it will be long, strong, steady plodding on the defensive for the greater part, and that being so, our remarks as to the breeding and training of horses for army "transport" purposes takes on increased significance.

In last article we did not typify the sort of beast that will be acceptable. We are now glad to take advantage of the splendid contribution made by New Zealand which conveniently offers the very best possible object lesson to Western Canada.

Accompanying the 8,000 men of New Zealand's Expeditionary Force, 3,775 horses go to the moving equipment of the artillery and mounted infantry. The same difficulty would confront our New Zealand cousins in the selection of these animals that will be experienced in Canada.

The ideas of some people as to what constitutes a suitable troop or artillery horse have been proved to be primitive in the extreme, and in view of the present condition of affairs the following criticism by a well informed observer will be read with interest.

The Fit and the Unfit in Army Remounts

"Those who have watched the trend of light horse breeding during recent years have not failed to notice a deterioration of the general purpose horse. There have been a good many contributing causes that have led not only to a loss of style, but also a loss in number. It may be said

Western Canada, some of them excellent but many have had to be rejected and the opinion has been freely expressed that the government vets were too strict. It is better however, that the officers erred on the side of caution than to accept unsound animals.

In New Zealand a few dealers



A Fine Team—Artillery Ammunition Column.

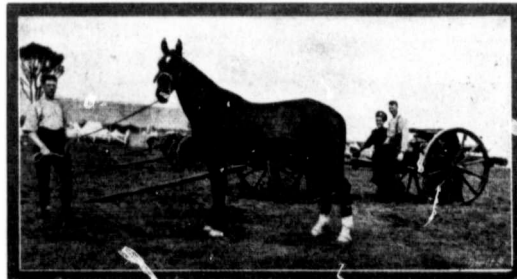
that the quality and stamina of our light horses fit for remounts is a long way below what it should be.

We have a lot of horses but what sort are they? Pretty well all the mixtures under the sun and it is difficult even at a show when the best of the light horses are supposed to be seen to find anything approaching evenness of type in a class of only half a dozen entries. Breeding light horses has drifted in so many directions by reason of the more restricted demand for any one type of animal."

The writer from whom we

tried to work points on the purchasing officials but they didn't succeed. It is said that in more than one case a horse got turned down at one place and afterwards was presented as a suitable candidate at half a dozen other centres in succession, each time under different ownership but in the end the unsound animal was still unsold.

This is no time (if ever there is a "time") for double shuffling. It was pointed out in our September issue that there is now a magnificent opportunity for a large number of men in the West whose holdings give them every facility



"The Pride of the Battery"—A Typical Artillery Horse.

quote goes into considerable detail as to what has happened from breeding fast track horses to the wrong material in mares and goes on to say: "When it comes to analysing the worth of these stallions as the sires of useful general purpose animals, one has only to look at their stock to be satisfied that for cavalry horses the trotter is a round peg in a square hole."

Recently a number of horses have been submitted to the Imperial Government officials in

the next two or three years, it will be found at the end of that time that those who have the foresight to go ahead now will find no shrinkage either in the demand or the price when their offsprings are ready for shipment.

In the meantime we suggest that a very great deal can be done by some enterprising men who are conveniently situated to collect and put in condition those units and small bunches that are scattered around, the makings of excellent material but lost to sight and their legitimate place as horseflesh for want of a little enterprising oversight and training.

A friend of the writer's made what most farmers would call a small fortune during the Franco-German War of 1870-71 by canvassing every likely farm and market in Scotland for the "frameworks" of the type that was then in demand. There was no time to breed to supply the frightful wastage of that campaign, but this man knew a horse when he saw it. He was an honest fellow with a lot of energy. He bought at a satisfactory price to the man who sold and after he



A Rejected Gift Horse

had put his collections into condition, he sold at a price satisfactory no less to the experts who were buying for the French War-office than to himself. Can't some good money be made in Canada in the same way in these times?

As we go to press, large contracts are being made by the French Government for the type of horse we are urging our readers to interest themselves in.

In Texas alone a purchase of 20,000 horses and mules has just been concluded representing a sum of \$2,600,000. Cannot a little energy and enterprise in Western Canada do a bit of money making it this way, too, and so take part in what is at the same time a real act of patriotism?



Mr. Subbubs—My dear have you any idea what became of those choice seeds I brought home the other evening?

Mrs. S.—Why yes, I fed them to Jones' chickens.

Mr. S.—What on earth did you do that for?

Mrs. S.—To save the poor things the trouble of scratching them out of our garden.

THE CANADIAN THRESHERMAN AND FARMER

CANADA'S LEADING AGRICULTURAL MAGAZINE

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NOV.

EAST AND WEST MEET

1914

OUR GUARANTEE

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

THE MANUFACTURERS OF THE EAST and the farmers of the West have met together in one cosy parlor; they are said to have made a bonfire of old recriminations and from the ashes it would seem as if something might arise that had the promise of life in it. Whatever of wisdom may have marked the deliberations of this mysterious, *in camera* conference, there is one inconceivably foolish thing it does not allow us to forget, viz.: the pity that the two greatest factors in our national household—so dependent on each other—should ever have been in conflict. Of all misunderstandings we have ever known between good men, we cannot recall anything quite so pronounced as the mutual distrust that exists between the manufacturers of farm equipment and their customers in Western Canada.

FOR THIS THE BLAME MUST BE MUTUALLY BORNE. From careful observations we have no hesitation in saying that the manufacturers of Eastern Canada have not yet shown that disposition to get next to their customers that one

looks for in all transactions in which a man seeks to secure and hold in perpetuity the confidence of another to whom he would sell something. This is speaking broadly, of course, and is not a sweeping allegation directed at the business attitude of every aspirant for Western business; but frankly there is a general feeling on the part of the Western farmer that with regard to certain remarkable differences in prices and tariff anomalies he is being exploited—unfairly discriminated against.

THAT IS HIS CONVICTION and his complaint is not belittled by the fact that he finds the manufacturer somewhat unapproachable. So far, there has been a certain "standoffishness" on the part of the man from whom he buys machinery and implements, a marked unwillingness on the part of that superior person to explain certain differences that bamboozle him. Plainly, he feels that he has been snubbed in every attempt to obtain information that he feels he is entitled to, information that could work to the prejudice of no honest trader and which if frankly elucidated would do more than anything in the way of conferences to win that confidence without which any form of enterprise in business getting is bound to fail.

THE EASTERN MANUFACTURER has not yet fully measured the character and capacity of the Western Farmer. He knows almost as little about him as he does of the Slavic grain grower to whom he has been shipping machinery and implements in Central Russia. He has met some "delegates" at odd times when it has been found necessary to beard the government at Ottawa, but the real man who is producing the goods, the farmer who can and will pay a

fair price for his tools the manufacturer has not yet had the privilege of knowing and taking to his heart as he will have to one of these days. The representative farmer we have in sight can speak for himself all right but he is not what one would call a platform success. He is not a figure-head at conventions. He sticks to his farm like a barnacle to a ship's bottom. He is not skilled in the arts of diplomacy. He may cut a poor figure in a drawing room but of all men worth knowing whom we have met in two hemispheres, commend us to the Farmer of Western Canada.

THERE ARE UNDESIRABLES, however, in every township. One of these we have referred to (on page 3 of this issue). He is representative of a very large number, "living monuments" of ineptitude and greed—the man who provides the only conceivable reason why the banks are so reluctant to finance the farmer. We can most definitely assure our friends from the east that there's more of him about than they have any knowledge of and that he will have to be inspected and put in his place before any scheme to break up a million acres of unpossessed prairie sod can be entertained. The government gave him his land for a mere song. The government ought to see that no man who has been given a heritage in the land should be allowed to hold it for speculative purposes. The government has made it a punishable offence for any farmer to grow noxious weeds. It should also see that the man who will not even grow weeds shall disgorge in favor of someone who can and will farm the land he has received as a gratuity.

THIS "BACK TO THE LAND" SCHEME is workable in one way only in the face of actual facts. It is a lop-sided idea to draft a horde of novices from Europe or anywhere and dump them down on new territory while so many experienced farmers who have given the very best hostages for integrity and ability are unable to carry on their farming operations for want of a little financing. Surely the only way with sense and justice in it is to place the matter in the hands of the farmers themselves. It will be a much simpler business financing men whose credit rating is second to none anywhere than launching out into what looks "confusion worse confounded."

THE FARMERS WHO HAVE BEEN WITH US for years and have paid for their knowledge by hard experience and hard earned money are now the men to be consulted and assisted to the extent of whatever they need. If the government would canvass the farmers as carefully as they have combed out advice from the banking interest, they would get practical help in the "back to the land" problem they have never dreamt of.

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The British War Office Wants Your Horses

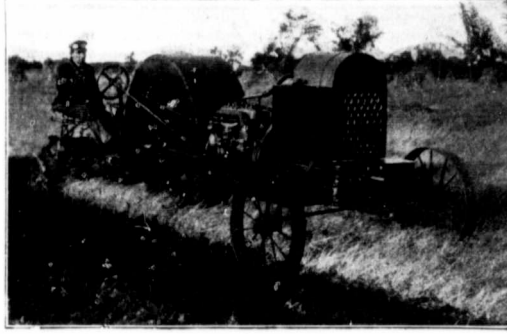
Isn't it Fortunate that You can Dispose of Them and Buy a

STRITE TRACTOR?

The STRITE

is built to meet the requirements of the small as well as the large farmer. It can be operated more conveniently and economically than a team of horses.

It weighs only 4,000 pounds and does the work of ten or twelve heavy draft horses. It will pull 3 plows under normal conditions. Will pull binders, drills, harrows, discs and do all of your stationary work.



Note the Specifications

MOTOR: Bore, 4¼, stroke, 5¾; cylinders 4, cast in pairs. Three point bearing crank shaft, 2 x 3½ inch. Piston pin bearings, 1¼ x 2¾.

DRIVE WHEEL: 60" diam. 20-face, "built up" type.

REAR LIVE AXLE—runs in Hyatt high duty roller bearings.

BULL GEAR and PINION enclosed in oil case, 2¼ pitch.

SPEEDS—road travel, 4 miles. plowing 2¼, low speed 1-8-10.

BELT PULLEY—12 x 6; speed 800 r.p.m.

SHIPPING WEIGHT — 4,000 pounds.

Insist on high duty roller bearings throughout; on a high duty, low speed, 4-cylinder, vertical motor, equipped with enclosed governor, high tension magneto and circulating pump, driven from same shaft, with bearing support between pump and magneto. Insist on enclosed valves in the motor, and die cast bearings. Insist upon all working parts of the transmission enclosed operated in oil. Insist on having all gears, including bull gear and pinion run in oil, sealed from dust and danger. Insist upon quality, workmanship and design. Insist on a tractor with a maximum drawbar pull and minimum weight.

And Now As To Price!

Having strongly represented to the Factory the necessity of enabling us to offer the STRITE TRACTOR at a lower price to our customers we are glad to announce that our request has been generously met. Our unbounded faith in the "Little Giant" led us to contract for a large output from the factory, in consideration of which we received a greater price concession than we ever thought possible. The effect of this is that we now offer it to you f.o.b. Winnipeg for \$1250 cash, \$200 to accompany order, the balance sight draft on shipment with bill of lading attached.

Why You Should Buy a

Waterloo Boy One-Man Tractor

It is a Real One Man Machine



It is built of steel in every part where modern Tractor design calls for it.

It weighs but 4,800 pounds.

It has twin cylinders cast enclosed.

It is a kerosene tractor built especially to operate on the heavier fuel.

It is self-steering while plowing and will turn in a 25-foot circle.

It has high tension magneto requiring no batteries.

It has semi-steel gears.

It has a cooling system of the most approved type.

Its working parts are dust-proof.

It develops and will maintain 20 B.H.P. and 10 D.H.P.

It is so easily accessible that it is easily kept in perfect adjustment.

It is easy to operate and economical on fuel.

It has sliding gear transmission, thus giving a good range of speeds.

Its design is both pleasing to the eye and thoroughly in accord with the best engineering practice.

It will pull 3 plows under favorable conditions.

It can be used for stationary as well as traction work.

It will pull your plows, binders, harrows, discs, drills.

It is backed by a Rigid Guarantee that thoroughly protects the Purchaser--and

It Sells for \$800

What we would like to have you do is to compare the "WATERLOO BOY" with any so-called "one-man" tractor on the market to-day that sells for anything like the price. Note the construction, design, power, etc., and don't forget to ask the other fellow about the guarantee, which is your protection. We consider it the best tractor on the market for the money. Investigate what the market has to offer and be convinced. We will cheerfully supply you with further information if desired.

BURRIDGE COOPER Co. LIMITED WINNIPEG and REGINA



MIXED FARMING

MANITOBA - SASKATCHEWAN - ALBERTA

BY W.C. McKILICAN B.S.A



No. 9

Growing Corn and Field Roots

MIXED farming in Western Canada cannot realize its greatest possibilities without the use of hoed crops. They are of very great value on account of the large quantities of fodder they produce, on account of the feeding quality of that fodder and on account of their usefulness in cleaning the land and preparing it for grain crops. The hoed crops best suited to Western conditions are corn, turnips and mangels. It has been amply proven that these crops are a success in most parts of the West. Corn for fodder does well in all the settled parts of Manitoba and in most of the warmer districts of Saskatchewan and Alberta. Mangels may be grown further north than corn, but do not do so well in very dry districts. Turnips have the widest range of any, and should be a practical crop in all parts of the West.

Selection of Seed

Success in corn growing depends to a great degree on the choice of a suitable variety. Varieties that have been found successful in the corn belt states or in Eastern Canada will not suit in the West. Our season is short and our nights cool, and we require a specially developed type of corn that matures quickly and is able to grow in cool weather. In order to get this type we must choose varieties that do not grow as large as the Southern varieties. Some of the best varieties for Western use are: Northwestern Dent, Longfellow, North Dakota White and Minnesota No. 13. These are all early and at the same time produce a large quantity of fodder. Earlier yet than these, and, therefore, able to ripen seed in some seasons, are the following: Squaw, Free Press and Gehu. However, these are more or less dwarfed and do not produce enough fodder to be valuable for general production.

There is not as much difference between varieties of field roots as there is in corn. Two lots of seed of the same variety often show greater difference in productiveness than two different varieties. There are however certain varieties that show up

best in the average of many years' test at the Experimental Farm. Among those worthy of special mention are: Hall's Westbury, Bangholm, Perfection Purple Top Turnips, and Prize Mammoth Long Red, Giant Yellow Intermediate and Giant Yellow Globe Mangels.

Equally important is the variety in the case of corn, and much more important in root seeds, is the vitality of the seed. Very often poor crops or failures are directly traceable to poor seed. The Western farmer does not grow his own seed and is thus ignorant of the conditions

is the only safe way of growing these crops. But in practically all Manitoba and much of the moister districts of the other two provinces it is not necessary to have summer-fallow. Wherever the moisture is sufficient, good crops of corn and roots may be grown on sod land and also on land that has grown grain, provided it is not too filthy with weeds. Corn and roots may often be used to very good advantage as a substitute for summer-fallow. Where the land is dry or dirty, it is advisable to summer-fallow first, but where the supply of moisture is good,

should be broken and backset as described for the other kinds. When plowed only once, it should be plowed in July if possible or as soon after the crop of hay is taken off as conditions will permit. Early summer plowing kills and rots the sod so that it is in a much better condition to work up into a fine seed bed the next spring than it would be if plowed in fall or spring. Sod land should be disced several times during the summer after plowing in order to kill the grass and prepare a seed bed. Land handled in this way is ready for corn or roots in the spring and can be got into a fine state of tilth with comparatively little work.

When corn follows grain crops, the land should be well manured. The manure may be applied either in the fall, winter or spring, depending on the time of plowing and other circumstances. The best time for plowing differs in different districts. At Brandon we find that fall plowing gives best results, but it is well known that exactly opposite results are obtained with other types of soils. Plow, therefore, at the time that experience shows is best for your own locality. When plowing in manure, do not plow very deep. Deep plowing is good, but some other occasion should be chosen as it is not advisable to bury the manure out of reach. The land should be well disced in the spring to incorporate the manure with the soil and to make a fine seed bed. After thorough discing and harrowing so that the soil is in a fine mellow condition, the packer or roller should be applied to make the seed bed firm. It is then ready to be planted.

Planting

Corn may be planted with a hand planter, a grain drill or a corn drill.

Most of the corn planted in Western Canada is put in with the ordinary grain drill. This machine can be used quite successfully. By stopping up most of the spouts, one can plant the corn in drills three feet, or whatever distance apart is desired. This method is quick and does not require any extra machinery. The only objection is that the corn is in drills only and not in



A bumper crop of spuds.

under which it has been grown, harvested and stored and of its age when it reaches him. Thus he must make up in vigilance at the time of buying for the lack of the care which he was prevented from exercising at an earlier date. It is always advisable to make an actual test of the germination of seed corn and turnips and mangel seed before using it. This may easily be done at home by planting one hundred average grains in soil or by wrapping them in moist cloth or blotting paper and keeping them at a temperature suitable for growth. Tests may also be obtained by sending samples to the Dominion Government's Seed Laboratories at Ottawa and Calgary.

Preparation of Land

The largest crops of corn and roots are obtained by planting them in well summer-fallowed land. In large areas of the West where the rainfall is sparse this

the land reasonably free from weeds and manure available, then the hoed crop may follow grain in the place of summer-fallow.

When summer-fallow is prepared for corn or roots, it should be cultivated frequently throughout the summer so that all weeds may be killed. This makes it possible to keep the corn clean with very little hoeing. A well prepared summer-fallow will need very little spring work to put it in suitable condition for planting.

When corn or roots are planted on sod land, the sod should be plowed the previous summer. If it is native prairie, brome grass or alfalfa sod, it should be plowed shallow early in the summer and backset about two inches deeper in August or September. Sod of timothy, Western rye grass or clover need only be plowed once unless it is old and tough, in which case it

Sell Your Surplus Horses and Grain at War-Time Prices—Act NOW!

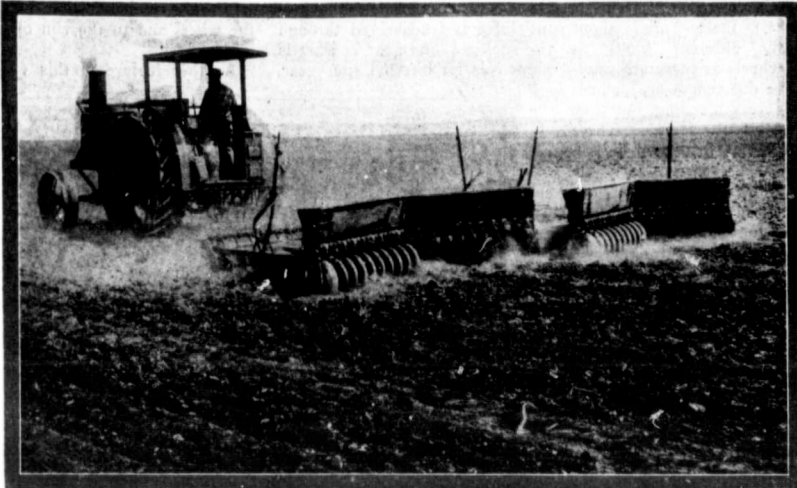
Tens of thousands of horses and mules are now being bought and rushed to Europe.

Right now is the Canadian Farmer's Golden Opportunity.

If you keep your surplus horses through the winter, you will have to feed up your high priced grain instead of selling it. But by selling your surplus horses now you can sell your grain at high wartime prices instead of having to feed it up into idle horses all winter.

Right now is your golden opportunity to make the change from horse or mule farming to Tractor Farming under the most favorable conditions.

You can make money now by selling your surplus horses and grain at high prices, and next year you will also make more money because a Tractor will reduce your farming expenses and enable you to raise larger crops.



Why Do Tractor Farming?

- You can't turn a switch and stop a horse eating.
- Most men are horse poor. It takes one-fourth of all you raise to feed the horses or mules required to raise the crop.
- A horse or mule eats every day whether working or idle. A tractor eats only when at work.
- You can't fix a dead horse with a monkey wrench.
- Horses only furnish pulling power. A stationary or portable gas engine only furnishes belt power. An Avery tractor furnishes both belt and pulling power—all in one machine.
- Don't gamble on your next year's crop. Sell your surplus horses and buy a tractor. Then you can do your work in just the right way and at just the right time.
- War has been declared on poor crops. Big victories are being won by men who are doing Tractor Farming.
- Kansas had the best wheat crop in the United States this year and the Governor of Kansas said that the best wheat field he ever saw was one where the plowing, discing, harrowing, drilling and harvesting were all done with an Avery Tractor.
- Crops, Cost and Care are the 3 c's of Tractor Farming—Bigger Crops, cheaper cost, less care.
- You can't raise big crops and not plow deep. You can't raise big colts and work your mares to death pulling plows deep in hard ground.
- A tractor to do the hard jobs—horses or mules to do the light jobs—that's the best farm power combination to-day.
- "The best slave living," is what one man calls his mules. But, because we're getting past the days of slavery, both human and animal, men are buying tractors to do the hard work and relieve their horses and mules.
- A tractor works for you on both sides of the ledger—on the credit side by raising bigger crops, and on the debit side by saving you expense.
- "I bought the tractor so my boys could farm the new way. I expect there will be as much change in a few years as there was from the old reaper to the binders," is what one successful owner of an Avery Tractor says.
- Tractor Farming is the way to raise the biggest crops with the least expense and hard work.

Sell Now!

Sell your surplus horses or mules now and stop feeding up your high priced grain into them. Then place your order for a tractor and plow to be delivered to you early next spring to replace your surplus horses.

If you are a thresherman as well as a farmer you can of course use your tractor for threshing, shelling, road grading, etc., as well as for farming. You know what an engine means in threshing compared with the old horse power. Well, a tractor means just as much in farming compared with using horses or mules.

Act now! Sell your surplus horses! Don't feed them through the winter. Save your high-priced grain and sell it also. Write at once for a complete catalog of Avery "Light-Weight" Tractors and "Self-Lift" Plows and Get All the Facts. Address:

EVERY COMPANY, 675 Iowa St., Peoria, Ill.

Why Buy an Avery Tractor?

- There are more Avery Tractors and Plows in successful operation than any other make.
- Avery's are the Lightest Weight Tractors built considering their draw-bar efficiency—they don't pack the ground to injure the crop—they don't waste fuel or power moving useless dead weight—they travel where heavy weight tractors mire down.
- Avery's are the Simplest and Strongest Tractors built—easy to keep in running order and built to last.
- There are 5 sizes of Avery Tractors—they make Tractor Farming successful on any size farm—large, medium or small.
- Avery Tractors are all brothers—they all look alike.
- Avery Tractors are standardized—they're past the experimental stage.
- Avery Tractors are neither stationary gas engines mounted on wheels and called tractors, nor automobile engines mounted on wheels and called tractors—they're designed and built from the ground up for tractor work.
- Avery "Self-Lift" Plows are the original "Power Lift—Self Drop" Plows. They're patented. Licenses have been granted only to Deere & Co., Grand Detour Plow Co., M. Rumely Co., Holt Mfg. Co., and Cockshutt Plow Co., in Canada. All infringers will be held to an accounting.
- Avery's are the only "One-Man" or "One-Boy" Outfits built in all sizes from 2 to 10 furrows.
- Avery Tractors and Plows are the only make of tractors and plows which have been entered in every important public contest and demonstration held in this country, which have made hundreds of special demonstrations before farmers all over the states where Avery Branch Houses are located, which have been sold on approval to be paid for only after they have made good, and which have been bought and tested out by hundreds of farmers and threshermen who have written us of their wonderful success. It's no wonder they are selling so fast. They have been put to harder tests than any other machine and have made good at every turn.
- Avery Tractors and Plows are backed up by the strongest guarantees given by any company.
- There's a strong company behind Avery Tractors and Plows.

Buy Now!

Canadian Avery Company, Ltd. Western Canadian Distributors
WINNIPEG REGINA CALGARY

PRACTICAL TALKS TO THRESHERMEN Talk No. LXXXV.

Conducted By PROFESSOR P. S. ROSE

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

Tractor Drive Wheels look pretty much alike until you examine them closely. Then many differences appear. In fact, there are about as many different kinds of tractor wheels as there are tractors. The differences are not necessarily very startling, but they are there just the same. There are differences in the spokes, in the way they are fastened to the wheels, differences in the rims, differences in the lugs and different ways for transmitting motion to the wheels. Every designer has a different idea and tractor wheels are far from being standardized. And yet there is no part about a traction engine that has received more careful attention than the drive wheels. Not only are there a great many modifications in the ordinary round wheel but a number of different kinds of wheels have been invented, some of which will be described presently.

A good tractor wheel must be so designed that it will carry the weight of the machine, stay in line under the severest kind of work and not get out of shape. It must be strong and yet not carry any more weight than is essential for the work it has to do. Moreover, it must be so fashioned that it will not slip on any kind of soil or tear up a good roadbed. Altogether these are difficult requirements.

Perhaps the easiest way for the reader to get an idea of the different wheels is to describe a number of the leading styles and point out the differences of construction. Figure 195 represents one form of wheel used by the Hart-Parr Company. The rim is made of heavy sheet steel and the hub of cast iron. The spokes are round steel rods riveted into the rim and held to the hub by nuts which put the spokes all in tension. The bull gear, which is of

cast steel, is provided with a number of projections by which it may be bolted to the rim. With this construction none of the driving force is transmitted through the spokes. The gear is what is known as an internal spur gear,

external spur gear. It is bolted to the hub and is supported by the rim through a number of braces which are riveted to brackets on the wheel and to the rim of the large wheel.

Another feature of this wheel

in diameter this is quite a serious objection, as they represent in such cases, no inconsiderable amount of the entire weight of the tractor. They should be made as light as possible consistent with proper strength and good wearing qualities. Another disadvantage of cast wheels is that sometimes a piece gets broken out of the rims whereas the same blow would do no more than bend a steel wheel and it would be an easy matter to hammer it back into shape. A cast wheel, on the other hand cannot be mended.

A number of companies have built what are known as open rim wheels. Instead of having a solid piece of steel for the rim they build it up of narrow strips with open spaces between. The object of such a wheel is to allow it to settle down into soft ground until it finds a proper footing. The soft earth squeezes up through these open spaces and falls out when the wheel turns around. A wheel of this kind is expensive to make and unless it is very well made it cannot have quite the rigidity of a solid rim wheel.

Since the good roads movement started there has been a disposition on the part of many road officials to restrict tractors of all kinds to the unimproved roads. The reason given is, of course, that the sharp cleats of the tractors tear up the roads and entail a great deal of expense to put them in good order again. There

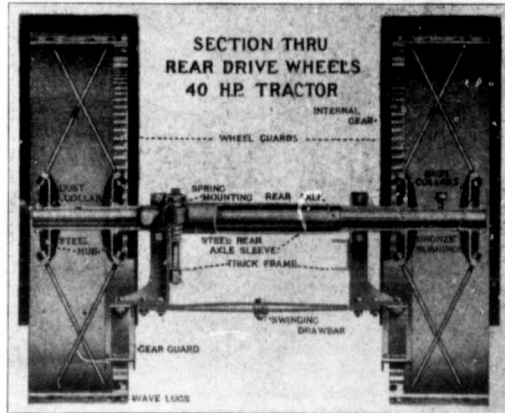


Fig. 195. Drive Wheels of Hart-Parr Tractor.

that is, the teeth are cut on the inside of the rim instead of on the outside, as in most gears. Both drive wheels are made exactly the same and each is provided with a bull gear which allows driving from both sides. Nearly all of the heavy tractors are built in that way at the present time. If the drive were all from one side the frame would be subjected to severe twisting stresses, which in time might throw the various parts out of line. The action of the driving pinion is to lift the front end of the machine. Sometimes this lifting effort amounts to two or three thousand pounds. If it were applied all to one side of the machine it would cause a severe twisting of the frame, consequently it has become customary to design tractors to drive from both sides.

Figure 196 shows a different style of wheel. The rim is made of heavy sheet steel riveted together and reinforced on each edge with a narrow strip of steel. This wheel has to carry a very heavy load and if it were not reinforced on the edges the designer was afraid it might be bent if it happened to strike a rock. The spokes are of flat steel, upset on the outside end so that they can be riveted to the rim. On the inside end they are riveted to the heavy cast iron hub. In this wheel, it will be observed, the spokes are in compression. The bull gear is what is known as an

is the lugs or grouters, as they are sometimes called. These consist of two rows of wedge shaped pieces of cast iron, placed diagonally across the rim and riveted thereto.

An entirely different kind of wheel is shown in figure 197. Here we find only a single row of spokes which are set into a suitable socket at the hub and held to the rim by means of a special clamp or foot which is bolted to the rim. This type of wheel is used on a steam traction engine and so far as known is not used on gas tractors. It is introduced here merely to show one of the various ways in which the wheel problem has been solved. In this wheel, the driving forces are transmitted entirely through the spokes to the rim. The differential and bull gear are attached to the rear axle and the driving wheel is keyed also to the axle. The twisting force of the gears is therefore applied to the axle instead of to the wheel as in the former example.

In some tractors the rims are cast. Wheels made in that way give satisfactory service and in some kinds of soil they wear better than steel wheels. If the roads are sandy and the sand is sharp it cuts a steel rim much more rapidly than it does one that is cast. The objection to the cast wheel is chiefly that it is heavy. Where wheels are made anywhere from six to eight feet



Fig. 197. Wheel used on Gear Steam Traction Engine.

is no doubt but that in many cases the road officials are right in their contention, and yet, some of the ablest highway engineers contend that the tractor does not do enough damage to make a fuss about. They recognize that even though it be an evil it is a necessary evil. Others even go so far as to advocate laws prohibiting tractors from the use of all improved highways. There is one thing certain, and that is, if the



Fig. 196. Wheel used on Rumely Oil Pull Tractors.

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Buy a Good Sleigh An Adams

IDLENESS wears out equipment much swifter than WORK.

All the more reason why YOU should use only ADAMS SLEIGHS.

The eight or nine months they stand unused yearly has practically no effect on their strength.

Because they're built of better materials—in a more substantial manner—than most builders deem necessary in sleighs.

- Adams OAK runners resist hard work and heavy loads.
- Adams Hardened STEEL or Cast Iron runners (your choice) are proof against hidden holes and frozen ruts.
- Adams STEEL NOSE PLATES fend off snow-covered rocks.
- Adams BENCHES and BOLSTERS are designed for the toughest winter service in Western Canada.
- ADAMS REACHES, COUPLINGS and COUPLING CHAINS are made to take any load. An ADAMS Sleigh is good for any winter work you ever want done.

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Our nearest Branch or Dealer will be glad to show you the big line of ADAMS Sleighs. Made in one of the biggest and finest vehicle plants—COCKSHUTT QUALITY through and through.



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tractor is to be allowed the privileges of all the roads they cannot be run with either spikes in the rims or sharp wedge shaped lugs. In France, in England and for city work in this country, there is a wheel made with a flat lug, shown in figure 198, that will not do any damage to the finest kind of macadam or concrete road. This wheel is generally listed as a municipal wheel. It is the type of wheel that ought to be sold and used

are prepared in one way or the other they are almost sure to get in trouble sooner or later with the road authorities.

Home-Grown Manitoba Alfalfa Seed

Manitoba now has home-grown alfalfa seed. The first threshing of alfalfa took place on the local government demonstration farm at Neepawa on Oct. 31st. About six acres of the first crop of alfalfa was threshed and from this one field of less than six acres was obtained 25½ bushels (1,535 lbs.) of clean, pure seed, the quality of which is exceptionally high.

This alfalfa was grown on the farm of Mr. H. Irvine near Neepawa. The seed was the well known Grimm's variety and was sown in rows three feet apart and so thoroughly cultivated by machine and by hand that all weeds were exterminated. About three pounds of seed per acre was used and the field treated with soil from old alfalfa land. The soil of the field was a warm, sandy loam. The harvesting was done by mower and the alfalfa cured in bunches and afterwards stacked for some weeks. Beyond an occasional unmatured seed, the sample is apparently well matured.

The wisdom of the policy of agricultural education laid down by the Department at Ottawa is constantly being verified. This experiment is another valuable one which has been made possible by the Dominion Government grant for this purpose.

The machine used in threshing this alfalfa is the first clover machine that has started in Manitoba, if not the first to be used west of the Great Lakes. It gave perfect satisfaction and it is hoped that the farmers will go more into the growing of alfalfa and that many of these machines will be required in the near future. The machine is manufactured by the Sawyer-Massey Co., of Hamilton, and was purchased through their local manager, William White, Winnipeg.

ported. Special conditions are attached to certain classes of plants, some classes are subject to inspection, other to fumigation. In order that all importers may learn what are the conditions governing the importation of trees and plants into Canada, a circular entitled "Instructions to Importers of Trees, Plants and other Nursery Stock into Canada," has been published as Entomological Circular No. 4 by the Department of Agriculture and all persons wishing to import plants into Canada should apply to the Publications Branch, Department of Agriculture, Ottawa, for a copy of this circular which will be sent free to all applicants.

“Is he really a professor?”

“Well, isn't any man who professes to be a professor a professor?”

Import Regulations Respecting Nursery Stock

All persons importing trees, shrubs and other plants, collectively known as "nursery stock" into Canada are required to observe the regulations of the Dominion Department of Agriculture which govern such importations. These regulations, passed under The Destructive Insect and Pest Act, prescribe the conditions under which plants may be im-

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in YOUR District.**

*Every Attention and Liberal
Commission Paid Agents*
Write today for particulars to
ANGUS ELLIOTT, Supt. of Agencies

**North American Life
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BIRK'S BUILDING WINNIPEG

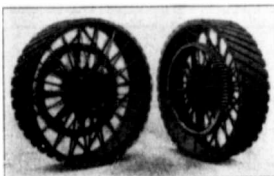


Fig. 198. Municipal Wheel with flat cleats as built by the Case Company.

where there is any considerable mileage of good roads.

Other manufacturers get around this difficulty by providing their tractors with a wheel having spikes which can be removed in a few minutes. This provides a smooth wheel for road work and a wheel with sharp lugs where traction is difficult. Whether the municipal wheel is used or the one with removable lugs, the fact should be kept in mind by prospective buyers that unless they

Mixed Farming

Continued from page 12

hills. The other two methods can be used to plant in hills in rows running both ways. This makes cultivating much more effective and lessens hoeing. It is decidedly the best way to plant. In planting with a hand planter, the field must be marked with a home-made marker, which is dragged across the field in both directions. The hills are then planted where the marks cross. This method is cheap, but rather slow. The corn drill is made especially for planting corn either in drills or hills. It is a very satisfactory machine for planting in hills, but no better than the ordinary drill for planting in drills.

Root seed may be sown quite well with an ordinary grain drill. By stopping up spouts, as in the case of corn, the rows are put the right distance apart. The quantity of seed may be gauged properly by jacking up the drill, turning the wheel, and counting the seeds turned out by one revolution, then setting the gauge so that the desired quantity for the distance covered by one turn of the wheel, is dropped.

Time of Planting

Corn should be planted during the last half of May. Earlier than that the soil is likely to be too cool for good germination. Later sowing does not give the corn a long enough season for full growth. Early seeding of roots is found to give best results in the West. May 10th is not too early if they can be got in then.

Cultivation

Corn and roots are spoken of as cleaning crops, because being grown in rows they allow cultivation to be performed between the rows while they are growing. Left to themselves they would be quite useless as cleaning crops, in fact there are probably few

crops that give weeds any better chance or are so easily overcome by weeds. Therefore if they are to be effective as cleaning crops, cultivation is the only means to the desired end. Not only does the condition of the land depend on cultivation, but the very life of the crops themselves is equally dependent on it. Most of the poor crops seen far too frequently are due to lack of cultivation.

Cultivation for corn should begin as soon as the seed is in the ground, with a good harrowing. Harrowing should be repeated after the corn is up and may be done safely until it is six inches high. This is a very cheap way of hoeing and saves much work later on. Roots should be harrowed after planting, but must then be left until the rows can be seen as the tender seedlings will not stand harrowing. As soon as the corn is too high to harrow, and as soon as the roots are visible, the work of intertillage should begin. This may be done with a one-horse cultivator or scuffler, or with fairly large areas of corn, it will pay to have a two-horse cultivator. The cultivator should be kept going up and down the rows of corn and roots all summer. They should be cultivated frequently and the cultivation should not cease when haying begins, but should continue until no more weeds come. The reward of thorough work is a big crop and a clean field.

Corn is usually planted in the quantities desired for the permanent stand and thinning is not necessary. With roots, however, it is advisable in order to make sure of a stand, to plant several times the amount of seed actually required. The excessive plants must then be thinned out. The best way is to block them out roughly with the hoe as soon as they are large enough to be clearly distinguished. Several plants are left in each group at this thinning. Then later, when they have grown a little more, they must be gone over by hand and reduced to single plants. Mangels and turnips should both be thinned out to about ten or twelve inches apart in the row.

It is well to do as much as possible of the cultivation with horses, but if a clean field is to be left, it is always necessary to do some hand hoeing. There are always some weeds in the row among the corn or roots that horse-drawn machinery cannot reach. These may be few enough not to prevent a good crop, but they will go to seed and leave a filthy field for the next crop. It is, therefore, necessary to do some hand hoeing, though good management and preparation may reduce it to a small amount.

Follow the Campbell System

Do you want to avoid the effect of the periodic droughts like the one that visited Western Canada the past year? Do you want to increase the yield of your crops to meet the European demand for food? You can do both by following the Campbell System of Soil Culture.

Paul Gerlach of Allan, Saskatchewan, who won the world's prize for wheat at the Tulsa exposition, frankly admits that he owes his great success to the CAMPBELL SCHOOL OF SOIL CULTURE.

Now is the time to enroll in this great school and prepare for next year. The cost is nominal, you do not have to leave home, and you can begin at any time and pursue such studies as you think will do you the most good. All books furnished FREE.

You have your choice of eight different courses—Soil Tillage, Irrigation, Farm Engineering, Cereal Culture, Small Farming, Horticulture, Dry Farming and Dairying.

Write for our catalog. FREE. Ask also for a sample copy of Campbell's Scientific Farmer.

Campbell Correspondence School
LINCOLN, NEBRASKA

Name this magazine when writing advertisers

OXY-ACETYLENE WELDING

Mr. THRESHERMAN:

If anything breaks or is worn out on your threshing machine or traction engine have it welded. Your time is valuable and we are at your service. Tell us your troubles. Send the broken parts to us or ask us to come to your place. No waste of time and no trouble to us. We are the pioneers of the process. We are experts and guarantee our work. Lowest prices.

L'AIR LIQUIDE SOCIETY, 325 William Ave., Winnipeg, Man.

Largest manufacturers of Oxygen and Welding Plants

Ask for information and newest catalogue.

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

No. 1 Sawyer Belts

150 ft.
7-in. x 5-Ply
\$39.50
(Formerly \$60.00)



150 ft.
8-in. x 5-Ply
\$45.75
(Formerly \$68.00)

There is one explanation for this low price and that is we are overstocked and do not intend carrying them over to next season.

All Threshermen know what a Sawyer Belt means. It is without a doubt the highest grade canvas belt that is on the market.

We will fill orders while they last at these reasonable prices.

150 ft. 7-in. x 5-ply Weight 150 lbs. Reg. \$60.00 **\$39.50**
150 ft. 8-in. x 5-ply Weight 165 lbs. Reg. \$68.00 **\$45.75**

Save \$10 on Our
IMPERIAL GRAIN TANK

Capacity 150 bushels

Regular Price Reduced from \$35 to \$25

For all other lines of goods see our General Catalogue

THE T. EATON CO. LIMITED.
WINNIPEG - CANADA

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Light and Ignition

For Your Gasoline Tractor

Plow at Night with Perfect Light

Prices \$24.00

And Up, According to Capacity Required.

Special Attachments for Ford, Maxwell and other Cars.

Large Profits to Dealers.

Write for Particulars To-day.

Eureka Lite

The Fact Is With Our Eureka

You can light almost any old car as light as day, But you can't afford to light a Ford in any other way.

Low Cost—High Efficiency

Used with or without Storage Battery

HENRICKS NOVELTY CO.
1504 St. Paul St. INDIANAPOLIS, INDIANA

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

From Start to Finish

FROM the beginning to the end of the year, in every month, International Harvester oil tractors reduce the expense of heavy farm work — plowing, disking, harrowing, grubbing, harvesting, threshing, hauling, and furnishing power for stationary machines.



To know the remarkable capacity and year-round efficiency of International tractors send for our tractor catalogues. They explain all the features to you—the power engine starting system, the throttling governor, the dust and grit proof engine, the simple construction, the ease of operating, etc. They tell you how the modern tractor has revolutionized field and farmyard belt and drawbar work—saving time, labor, and money.

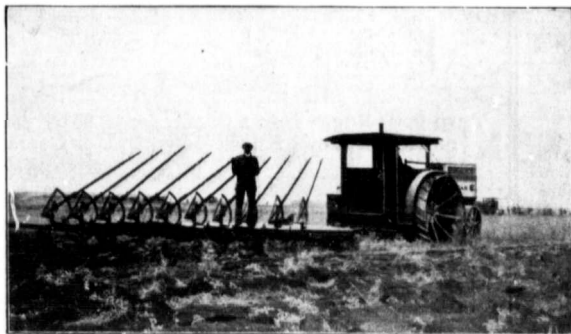
I H C tractors are simple and strong. They are built in several styles and all sizes, from 6-12 to 30-60 h.p. operating on kerosene and gasoline. The I H C line also includes all styles of general purpose engines from 1 to 60 h.p.

Write to the nearest branch house address below for instructive illustrated catalogues of I H C tractors and engines.

International Harvester Company of Canada, Ltd.

WESTERN BRANCH HOUSES

At Brandon, Man.; Calgary, Alta.; Edmonton, Alta.; Estevan, Sask.; Lethbridge, Alta.; North Battleford, Sask.; Regina, Sask.; Saskatoon, Sask.; Winnipeg, Man.; Yorkton, Sask.



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

Manitoba Seed Grain Fairs

The Extension Section of the Agricultural College announces the following dates for Seed Grain Fairs to be held during the next few weeks under the auspices of Agricultural Societies, viz.:

Rockwood	November 12th
Morden	November 17th
Russell	November 18th
Swan Lake	November 18th
Birtle	November 19th
Warren	November 19th
Morris	November 20th
Headingley	November 20th
Roland	November 30th
Cartwright	December 8th
Carman	December 8th
Manitou	December 9th
Elgin	December 10th
Arrow River	December 15th
Argyle Woodlands	December 15th
Reston	December 16th
Kelwood	December 17th
Shellmouth	December 17th
Gilbert Plains	December 18th
Gladstone	December 19th

An interesting feature of these fairs will be the shows of dressed poultry, the addition of this exhibit having been made to every seed fair so far. An increased interest in the poultry industry is, therefore, quite in evidence throughout Manitoba.

To each of these fairs the College is sending speakers, who will deliver addresses on subjects relating to better farming, poultry raising, dairy work, etc.

How to Graduate as a Traction Engineer

The Minneapolis Steel & Machinery Co., is now conducting a school for the instruction of men in the operation and care of Gas Traction Engines. This move is in line with the Company's policy of doing everything possible to make its engines a satisfactory and profitable investment. The prime motive in taking this step has been to assure customers of competent engineers to operate their engines.

The course is divided into three general divisions; viz: Shop Work, Lectures, and Examination Papers.

Shop Work will consist of erection, general work and testing.

Under erection, a portion of the time will be spent on the motor floor in the general assembly of one or more machines, with particular reference given to the timing, valve setting and care of the magneto and carburetor. Attention will be given at this point to scraping of connecting rod boxes; the application and use of interchangeable shells in connecting rods; taking up of main bearings and connecting rod bearings; grinding in of valves; removal of pistons and insertion of new rings, etc.

The classes will be under the

direction of the most competent instructors or supervisors while erecting one or more tractors, and during the course of this erection, such special points as have been found to give trouble in the field from lack of care, will be pointed out to the pupils, and proper instructions given for the avoidance of trouble in these respects.

In testing, a portion of the time is devoted to the motors; to handling of the engine in traction and belt, etc.

A course of lectures will be given which will cover in a general way the following outline:

1. On ignition and carburization, both as general propositions and as applied to Twin City Engines.
2. Care and handling of engine in the belt, with notes on separator practice, wood, sawing and miscellaneous power work.
3. On engine in traction, covering the work in the plow field, hauling, with notes and suggestions of hitches and various applications of farming machinery to the traction engine.
4. On the general care and handling of the engine, with a view of giving such instructions and information as lead to economical operation and low cost of maintenance. Particular reference at this time will be given to economy of fuel and lubricants, and general rules and instructions

laid out for the guidance of operators as to the kind of lubricating oils and amounts needed on various classes of work.

At various times through the course, written examinations covering the instruction given will be required and will be corrected and returned to the pupils before the completion of the course.

On the satisfactory completion of this course, a diploma will be given which will indicate the proficiency the student shall have attained as a tractor operator.



Home Truths

An editor in a Kansas town was showing a former resident, who had returned for a visit, round the place.

"Huh," said the former resident, "time was when I could have bought this hull blamed townsite for two hundred dollars, but I didn't think it was worth it."

"It wouldn't have been if you had bought it," replied the editor.



"A Horse Trainer," says a racing man, "should be prepared to meet every contingency and every emergency. He should be like the young lady who said, 'I don't intend to be married till I'm over twenty-three, and I don't intend either, to be over twenty-three till I'm married.'"

Putting on the Emergency Power in Farming, making Canada the Granary of the Empire
By H. H. BIGGERT, Hamilton, Ont.

THE history of all great wars has shown that the man at home behind the plow fought shoulder to shoulder with the man at the front behind the gun. In times past, without the first the latter would have starved, and without the second the former would have been destroyed.

Such a crisis has not yet come in the present conflict, but the silent appeal of the Mother Country to all her colonies has been heard around the world—an appeal for supplies, for bread, for hay, for horses, and for moral support.

Already across the border the American farmer is fortifying himself to meet the increased demand which will be made upon him for his produce. He is increasing his acreage and everywhere is re-echoing the appeal to him to improve his methods in order that his acreage yield may be increased. The impulse which is swaying him to answer the emergency call should meet with double response from the tillers of the soil in this country, where not only the dictates of business urge them on, but where there is the added incentive of the higher consideration of patriotism. As a man doubles his strength when tightly pressed, or an engine exceeds its rated capacity when forged ahead, so should the Canadian farmers multiply their energy and strive to excel their past good records as producers of the world's bread.

The recent appeal of the Honorable Martin Burrell, Minister of Agriculture, showed definitely the business advantage of beginning at once to prepare for a greater acreage of wheat. "The only way to get more wheat," said he, "is to properly and most carefully handle the stubble land. Let it be the determination of every farmer to make his wheat acres in 1915 yield as never before. It is certain that an increase of many millions of bushels can be insured if every farmer on the prairies will carefully consider the following suggestions and put them into practice immediately.

Summer Fallow

"Get the summer-fallow into good shape; let it be ready for the seeder the moment the snow goes, and put it into such shape as to be free from weeds ready to absorb moisture, and as far as possible from evaporation.

Stubble Land

"Every acre of stubble land in good enough shape to be fairly safe for wheat should be plowed right now; plow not less than seven inches deep, and deeper if the character of the soil and moisture content will permit; deep soils should be plowed deeply, shallow or light soils with a more shallow furrow; do the plowing well; every acre should be harrowed within two days after plowing and pack the land if possible after harrowing.

Spring Work

"Early seeding is the next consideration; make every preparation now and this coming winter, to lose no time when the spring opens; be sure the seed saved is clean, and of high germinating quality; get the best variety possible; do the work well at seeding time, cultivating or disking before seeding always means bigger and better crops, and in districts where the crops were a failure this year, the methods outlined above are particularly necessary."

We would emphasize especially the necessity of frequent disking, and the almost essential use of the land packer as a safeguard against drought. Many thousands of farmers, for the first time, last year staked their crops on the land packer, and owing to the unreasonable dryness which prevailed this season, it is estimated by many authorities that the use of this machine, wherever used, made a difference of 6 to 12 bushels per acre. At the price at which they are disposing of their wheat this year, the packer has proved an investment worth several hundred per cent to them the first year of its use.

Preparing the Seed Bed

In those parts of the country which do fall plowing and fall seeding, the way the seed bed is made and the way the sowing is done this fall will determine the crop per acre next year more than next year's rainfall, hot winds or frosts. In an experiment not long ago described by F. L. Peterson of the University Farm at Davis, California, he says:

"As the pressure for supplies becomes greater, it becomes more evident that the world cannot afford large farms skimmed over with careless culture. In an actual experiment a gain of 200 per cent which was made in the productiveness of a certain area, 100 per cent was found to be due

Water Tanks Below Cost, \$26.35
REGULAR PRICE \$35.85

These tanks must be moved out of our way to make room for fall stock of Bob Sleighs. They are made of the very best material and painted half round style with a flat top, and are standard in size and quality. Price, including two bunks, while they last. \$26.35

HAWKEY'S BOB SLEIGHS, \$28.50

Hawkey's Bob Sleighs are made of extra strong and heavy material, note size of stock used. Our sleighs are made of the very best white oak and rock elm. All iron parts are of the very best quality of heavy steel. The spring steel used on the runners is of extra high carbon made especially to our order and has great wearing and easy pulling qualities. The bend of the runner is ideal. The weak point in other bobs we have strengthened in ours. The weakest point in the Hawkey sleigh is in the part where the start pins go through the runner; these we have strengthened by rivetting side plates on each side of the runner with three rivets. The start plates are also very securely fastened to the beam. Our sleighs are painted with two coats of red paint, striped and heavily varnished. Approximate weight 500 lbs. Takes 2nd class freight rate.



No. 1H—Hawkey Sleigh. Runners 2 1/2 in. wide by 6 in. deep and 7 ft. long. Beams 6 x 8 ins. Front bolster 4 1/2 x 5 1/2 ins. Hind bolster 3 1/2 x 4 1/2 ins. and 2 1/4 x 6 in. pole. The start pins are 1 in., held securely in place by extra heavy steel rivets. King bolt is 1 1/4 in. Ironed with 2 1/2 x 3/8 in. special carbon spring steel shoes. Price \$28.50

No. 2H—Hawkey Sleigh. Runners 2 in. wide by 6 in. deep and 7 ft. long. Beams 5 x 8 ins. Front bolster 3 1/2 x 4 1/2. Hind bolster 3 1/2 x 4 1/2 and 2 1/4 x 4 1/2 in. pole. The start pins are 3/8 in. held securely in place by extra heavy rivets and king bolt is 1 in. Ironed with 5/16 x 2 in. special carbon spring steel shoes. Price \$28.50

Turn your Buggy into a Cutter for \$9.85 by using one of Hawkey's Knock Down Cutter Gears



Any ordinary buggy box may be quickly attached, making a thorough practical Cutter. Very easily attached, set up and easily dismantled. All wooden parts are selected hickory. Bent hickory runners 3/4 in. x 1 1/4 in. Bent hickory knees 1 1/4 in. square, re-inforced with 3/8 x 3-16 in. steel scroll braces. Steel shoes are 3/4 x 1 1/2 in., width of track 38 in., length over all 72 in., height 18 in. Shipped knocked down in order to save freight charges with shifting-rails which will take regular buggy shafts or pole. Complete ready to attach to buggy. Painted red and nicely varnished. Price \$9.85

\$1.85 UP FITTED PLOW SHARES \$1.85 UP

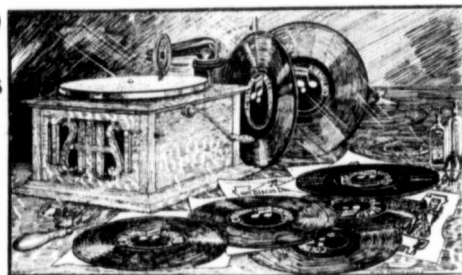
Write for Free Catalogue and Hawkey's Vest Pocket Book on Diseases of Stock and How to Cure Them, and Free Sample of Hawkey Stock Tonic. Use Hawkey Stock Tonic and Remedies

H. R. HAWKEY & CO.

Hardware Mail Order Specialists, WINNIPEG, Man.

The Wingold Hornless Talking Machine
now within your easy reach on Credit

\$7.50
Cash puts this Instrument and Six Records in your Home



YOU NOW are able to enjoy what was previously considered a rich man's luxury and even more—you can buy this machine of us on the wonderful credit terms of a third cash and a dollar a week during this special sale. Don't miss this opportunity to get a most welcome article for your home, as you don't know what pleasure it brings until you really have it. The Wingold will play all Flat Disc Records equal to any \$250.00 machine.

FREE RECORDS. With every order for a Wingold Talking Machine, we give absolutely free Six Double Disc Records. Send for Free List, select five—the sixth is a special record which we want you to have to show the possibilities of this wonderful instrument. Send us \$7.50 cash with order and we will ship you the outfit, you to pay balance \$1.00 weekly for sixteen weeks, Wingold Hornless Talking Machine, together with Six Free Records \$23.50

SEND FOR WINGOLD'S FALL AND WINTER BARGAIN CATALOG
TEAR OFF COUPON BELOW AND MAIL TO-DAY.

THE WINGOLD CO., WINNIPEG:
Send me your Bargain Sale Catalog.

NAME
ADDRESS

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

There's No War in the West

except on "Shoddy." Bad boots will lose a campaign if all else is going well. Bad belting will kill the best threshing season more effectually than anything else in men's carelessness or incapacity. The greatest asset to a threshing outfit or to any power proposition is a belt service that no one ever needs to think about because they know it is sound and as reliable as the law of gravitation. It is the



Lion Brand

Rubber Belt

OR THE

Maple Leaf

Endless Thresher Belt



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 time or at any time.

Gutta Percha and Rubber Limited, WINNIPEG CALGARY

NOT IN ANY TRUST OR COMBINE

to better plowing and harrowing, 50 per cent to better cultivation, and the rest to better seed."

A lesson or two like that in every community would soon work its way into farm operation in such a way that several costly practices sanctioned by time and custom would become in a short time as historical as cradling wheat and threshing it with a flail are now. The great economic law which makes a man's land profitable is not so much the price he gets for his produce as it is the difference between this price and the amount spent in producing this produce. The above experiment was apropos of the tractor—a mechanical way of plowing and of disking—a mechanical way of massaging the land, so to speak, and of drilling—a mechanical way of sowing the seed. In the cost of raising a crop, just the same as in the cost of making carpets, shoes or wagons, hand power and animal power cannot compete with mechanical power. The mechanically prepared seed bed not only costs less in its preparation, but it gives forth more in its harvest.

The War Will Make Horses Too Costly to Keep

Oats and oil are in the throes of a little war of their own just the same as the human back once combated with the reaper knife. This strife is fast becoming more

acute because the price of horses is being accentuated every day by the number being sold out of the country for cavalry mounts to be used abroad. The drain upon the Canadian horse supply will soon be such that wherever possible mechanical contrivances will be used to do their work. Were we to begin at once, it will require five years to replenish the drain which the war has already made upon the horse supply of the world. The United States Government Department of Agriculture has estimated that it costs \$75.00 to \$80.00 per year to keep a horse, and in the study of horse utility for a period covering six years, it was found that he averaged only 3.14 hours of work per day as his contribution to lessening the high cost of living. In contrast with this it was found that he ate up the entire yield of one out of every five acres which he helped to cultivate. It has been shown, too, for every hour he worked it cost about 16 cents; whereas, a full horse-power hour can be delivered by a high-grade oil engine for only two cents per hour, in both cases interest, fuel, food and depreciation being included. Again, in plowing, a team of two horses can plow only about two acres per day. In doing this, they travel sixteen miles, which is a good day's pull for horses with a load.

Superior Fanning Mills Best For Canada

Thirty years' use has proved the Superior to be the best mill for Canada. You may have clean seed with a Superior. Proven by the most severe tests to be the most perfect system for separating wild and tame oats from wheat and barley.

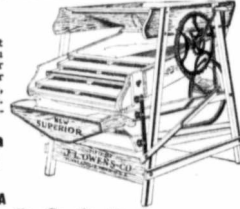
Try It Free on Your Farm

If you don't agree that it is the best mill you have ever seen, trial costs you nothing. Built in all sizes for hand or power requirements, for farm or elevator use. Run with Cushman Binder Engine, 4 to 8 H.P., or with any other engine. Ask your dealer or write for full information. Sold only by

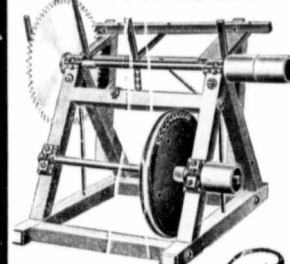
Cushman Motor Works of Canada

Full line of Light Weight Engines for Farm and Binder Use. Distributors of Indian Power Driven Machines, such as Grinders, Saws, Cream Separators, Power Washing Machines, Etc.

286 Princess Street, WINNIPEG, MANITOBA



WATSON'S POLE SAWS



This year will see more Watson Saws in use than ever before—because the pure merit of every Watson product sells a second and a third later on. Learn their merit for yourself.

Strong, rigid frame; heavy steel shafts and boxes, solid fly-wheel, three pulleys; finely-tempered blades that stay sharp.

Write for the Watson Catalogue.

WE SELL
Root Pulpers, Straw
Cutters, Pulverizers,
Grain Grinders, Ware-
house Trucks, Horse
Powers, Slings (all
sizes) etc., etc.

John Watson Mfg. Co.
WINNIPEG

Wanted—100,000 Names

Send Your Name and Address to Us at Once
For Greatest Free Merchandise Book Ever Published



You Can't Beat This Dresser and Stand

Substantially Built, Inexpensive Dresser, made of hardwood with rich golden quarter-cut oak finish. Case contains three drawers, easy running solid posts, paneled ends and double-ply top, which measures 15x35 in. A British bevel mirror, 15x22 in. in a newly carved frame. No. 200—Price stand to match, \$6.75 containing on a drawer and one cupboard. No. \$2.60 200A—Price

9.35

THIS NEW, BIG FREE CATALOGUE

is just like bringing the choicest, biggest, handsomest stock of Home Furnishings—many times the size of even the greatest city store—right to you. It is crammed full of money-saving bargains at prices that guarantee you a saving of 25 to 50 per cent. You will find a complete line of FURNITURE, STOVES, VEHICLES, GROCERIES, HARDWARE and numerous other articles for the Home and Farm. Every article listed is GUARANTEED to give entire satisfaction, or your money will be refunded immediately, together with all freight charges. We will send you this BIG CATALOGUE FREE on receipt of your name and address. It will be the means of saving you considerable on your purchases, besides giving you merchandise of QUALITY that is only obtainable at our store.

We are Giving Away Thousands of Dollars worth of FREE GIFTS. Get Full Information how to obtain them

YOU SAVE 25 to 50% SEND TO-DAY FOR YOUR COPY

Domestic Grand Blue Steel Range

Burns Wood, Cobs or Coal. Duplex Grate

Complete as shown

42.75

9-16 Size

You Save \$15

Newest Design Kitchen Cabinet

36.50

Perfection in every point is what you will find if you purchase this solid Oak Kitchen Cabinet. No better cabinet made, regardless of price. Base is made with large cupboard, large white enamel lined cooling cupboard, nicoteline bread and cake box, large pastry board and sliding polished nickel top. Size when open, 42 x 40. The top is complete in every detail, is full white enamel lined, has tilting flour bin with flour sifter, full set glass spice jars, large china cupboard, double divided sugar bin, small cutlery drawer and heavy chopping board.

Send us your order subject to your approval. **\$36.50**

No. 34 Special Price

Guaranteed Rubber Roofing

"ACME" PREPARED ROOFING is made from selected, long fibre wood felt, thoroughly saturated with non-volatile compounds, and coated on both sides with a patent composition making it closely resemble rubber, and is commonly called "rubber roofing." Contains no tar or other volatile matter, therefore does not dry out or crack. It will not stick to the roof, contains nothing to ooze out, even in the hottest weather, and will not crack in the coldest. It is adapted for any climate, absolutely weather-proof.

ACME BRAND
R200—Acme Prepared Roofing, One-Ply—Roll contains 108 square feet. Complete with nails and liquid cement for the laps. Weight, 35 lbs. Per roll, 108 square feet **\$1.50**
R201—Acme Rubber Roofing, Two-Ply—Roll contains 108 square feet. Complete with nails and liquid cement. Weight 45 lbs. Per roll of 108 square feet **\$1.90**

Quarter Cut OAK BUFFET and CHINA CABINET

\$21.75

The case is made of genuine quartered oak, highly polished, has bent glass ends with three shelves for china or fancy articles. The center has large glass cupboard and two drawers neatly carved and fitted with locks and wood knobs. The case is 40 inches long, and is finished with heavy claw feet. Has Bevel Plate Mirror 8 by 30 inches in neatly carved frame with two small bracket shelves. Hundreds more like this in our big catalogue. No. 1011 **\$21.75**

Big Solid Oak Q 95 Morris Rocker J

A big value shown in our catalogue has adjustable foot rest, full spring seat, full tufted adjustable back covered high-grade imitation leather. The frame is made of full Quarter Cut Oak finished a beautiful golden. No. 1306. Our Special Price, \$9.95

NOTE FOOT REST

Reliable Empire Oak Heater

13.75

Heavy steel body, large fire pot, full nickel base, illuminated feed door, Duplex centre grate, large dished ash pan. This is just the heater for you if you want to have a comfortable home on the coldest winter nights. Built to give the greatest amount of heat with a minimum amount of fuel. Made in three sizes, as shown.

112 12-in. fire pot \$13.75
114 14-in. fire pot \$15.50
117 17-in. fire pot \$19.50

Complete 9-Piece DINING ROOM SET at Big Saving

\$49.50

This beautiful set is made of hardwood, finished surface oak golden or early English finish. Buffet is 46 inches wide and has three small drawers, one large drawer and double cupboard, leaded glass doors. China closet is 30 inches wide, 58 inches high. Table has 45-inch top, and extends to 6 feet. Diner set consists of five small and one arm chair, upholstered in imitation leather, strongly constructed, brace arms on small chairs. Don't hesitate to order this set on account of its low price, we have sold hundreds of them and guarantee you a first-class value.

Order the set from this advertisement or send for our catalogue. **\$49.50**

No. 301—Price, complete, 9 pieces

COAL OIL

17 to 25c. per Gallon at Wholesale Prices

Purchase your coal oil direct and save 10 to 20 cents per gallon over what you will pay locally. We supply only the finest grades, put up in 45 gallon barrels.

128X—Monarch Brand—This oil gives a white even light and will not smoke the chimney. Barrel \$2.00 extra. Price, per gal., F.O.B. Winnipeg **23c.**

129X—Superior Brand—A higher grade oil that will burn better and last longer than the ordinary coal oil. Barrel \$2.00 extra. Price, per gallon, F.O.B. Winnipeg **23c.**

130X—Farmers' Special Brand—Similar to that sold at 28c. to 32c. per gallon. Buyings in large quantities enables us to save 30 to 50 per cent. Barrel \$2.00 extra. Price, per gallon, F.O.B. Winnipeg **21c.**

131X—Our Bright Light Brand—An excellent grade of oil. May be used in the house lamps and will give a steady light. Barrels \$2.00 extra. Price, per gallon, F.O.B. Winnipeg **19c.**

132X—Engine Kerosene—We sell a large quantity of this oil for Engines and can make you special prices for large quantities. Barrels \$2.00 extra (returnable) per gallon, F.O.B. Winnipeg **17c.**

NEVER WERE SUCH HIGH GRADE VEHICLES OFFERED AT SUCH LOW PRICES
Only 30 Road Wagons, 17 Democrats, 10 Top Buggies and 8 Delivery Wagons at these Reduced Prices. Closing out the Balance of our large stock. Order early to avoid disappointment

The Farmers' Supply Co., Limited, Dept. T., Winnipeg, Man.

Please send me Free your New, Big Complete Catalogue and all information how I can obtain Free Gifts. Also your proposition of any article shown in your Catalogue for \$3.00 cash with order. I am interested in

- Furniture
- Vehicles
- Stoves
- Kitchen Cabinets
- Sewing Machines
- Heaters

Check article you require information on.

Name _____

P. O. Address _____

Shipping Point _____

ROAD WAGON \$45.00

Study the construction of the wagon carefully; every part is made of first class material and finished equally as good as the highest priced vehicles. Wheels—1-in. rims, 40 in. front, 44 in. rear, Sarvin patent. Seat—Morrocline trimmings, swell side stick seat, spring cushion. Gear—Double reach, rear king bolt, fifth wheel, 15-16 long distance axle. Body—24 in. wide with patent leather dash. Color—Deep black with green gear.

No. 77. Our Special Low Price **\$45.00**

FREE WHIP WITH EVERY VEHICLE

GUARANTEED DEMOCRAT \$59.00

The Latest Improved Democrat. Body made extra strong, 33 x 86; hardwood floor, drop gate, 12-in. dash, two removable seats, covered in imitation leather; gear is our well-known Double Reach with Triple Hays Spring in front and Elliptic spring in rear; 1 1/2 in. axle, Sarvin patent full circle fifth wheel. Wheels 40 in. front, 44 in. rear, fully guaranteed, riveted and bolted between each spoke. Painted brewster gear, Complete with pole and whiffletree. Co. B. Winnipeg. Full spring seats and falls on front. **\$59.00**

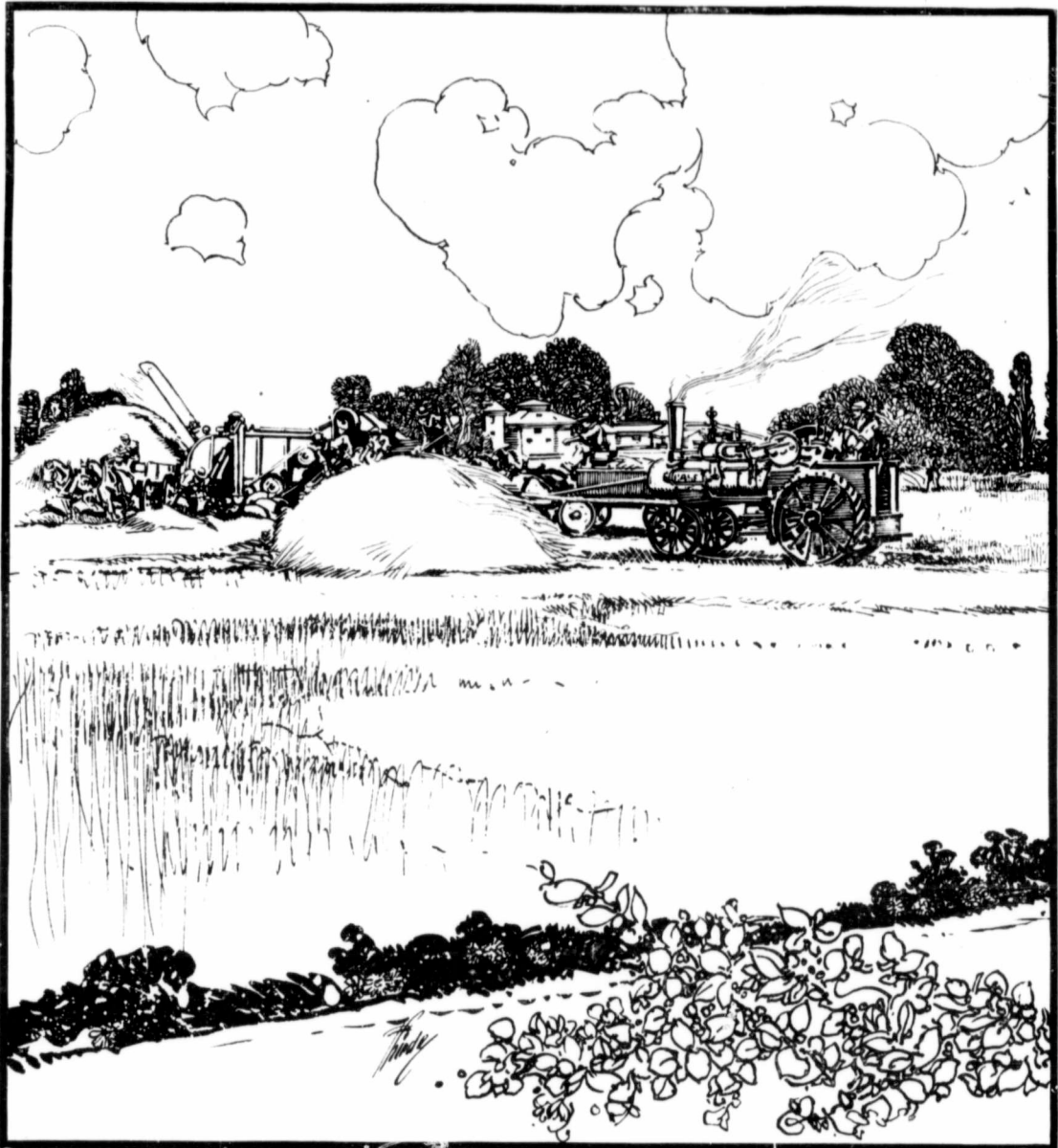
ONLY A LIMITED NUMBER AT THIS PRICE

ORDER DIRECT FROM THIS ADVERTISEMENT

Every Vehicle Fully Guaranteed

THE FARMERS' SUPPLY CO., LTD. Dept. C.T. 179 BANNATYNE AVE. EAST, WINNIPEG

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



CASE MACHINERY

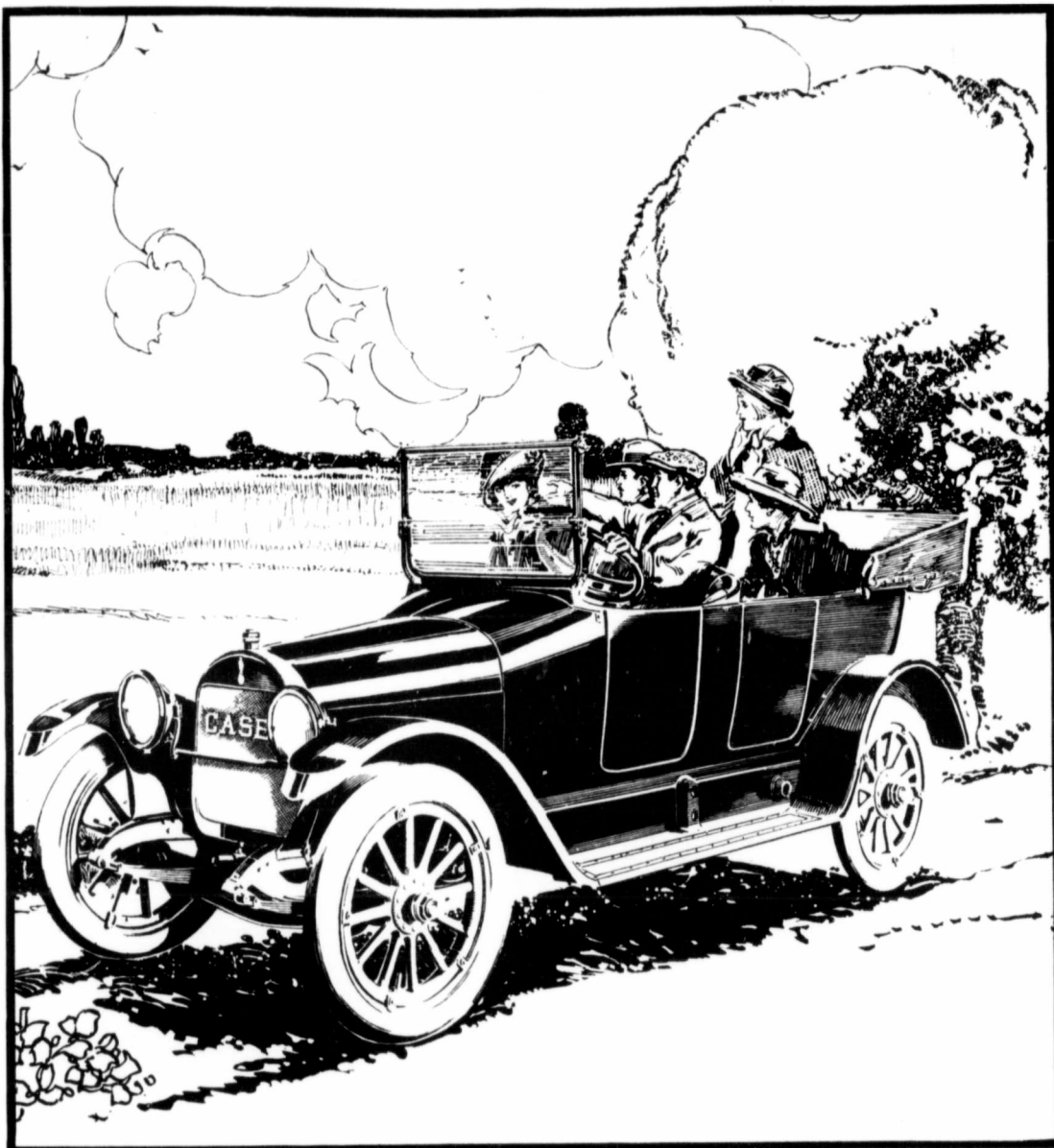


CASE products for decades have been used throughout the world, and have been successful. They have always done the very best work, at the least cost. This is the result that you must have if you are to get all that you are entitled to. No matter whether it's a threshing machine or a road grader; a steam tractor or a husker-shredder; a road roller or a gas tractor; a tractor gang plow or a road drag, in the machine that bears our name you are bound to find the one that is always at your service; the one whose ownership is a source of satisfaction. ¶ Now is the time to begin to figure on next year's equipment. Now is the time to study CASE catalogs. Better let us send you yours.



J. I. CASE T. M. COMPANY, Inc., 741-791 State Street, Racine, Wisconsin, U. S. A.

Canadian Branches: Toronto, Winnipeg, Saskatoon, Regina and Calgary.



CASE AUTOMOBILES



To you who reason, CASE cars must make a strong appeal, because of the fundamental fact that they are made by the Case Company. Bearing our trade mark they bear our reputation. Further, the appearance and appointments of these cars are those primarily of comfort and refinement. Their complete equipment leaves nothing for you to buy but "gas and oil." ¶ Their prices—Look at them! The Forty at \$1800; the Thirty-five at \$1600; the Twenty-five at \$1350, with CASE complete equipment, including extra tire on extra rim, tire cover, chains, etc., 5% discount for cash. ¶ Our new 1915 catalog explains in detail the features of construction and style that will make a strong appeal to the judicious buyer.



J. I. CASE T. M. COMPANY, Inc., 741-791 State Street, Racine, Wisconsin, U. S. A.

Canadian Branches: Toronto, Winnipeg, Saskatoon, Regina and Calgary.



Farmers are Wanted to Have All Grain Intended for Seed Tested for Germination

(Bulletin of Seed Branch, Regina)

1. Early frosts occurred this year on August 9th and 12th over large areas in Western Canada, damaging to a great extent the germinating powers of grain, more particularly oats. It is therefore advised that all grain intended for seed next Spring be tested for germination.

2. To have seeds tested send a sample to the Ottawa or Calgary seed laboratory.

3. About a handful (300 grains) enclosed in a small cotton bag is sufficient to send as one sample for germination.

4. Address samples to the Department of Agriculture, Seed Branch, Ottawa, or to the Dominion Seed Laboratory, Calgary, Alberta. Samples sent to Ottawa will be carried free in the mails if marked O.H.M.S. On samples sent to Calgary postage must be prepaid.

5. Tests on all samples are made absolutely free up to 25 in number. It is not necessary to enclose postage to have reports on tests returned, but it is absolutely necessary to have name and address of sender plainly marked on tag enclosed in the bag, also state on tag enclosed that germination test is wanted.

6. Samples should be taken so far as possible from lots re-cleaned for sowing.

7. It is essential that seed sent these laboratories for test be sent early.

8. Farmers may test their own seed satisfactorily by a soil test conducted in their own homes, as follows:

9. Put in a supply of dirt this fall, fill some shallow boxes, count out 100 seeds from lots to be tested, sow, and place boxes in the windows of the kitchen where the temperature is warm.

10. When seeds have sprouted, count the sprouts and then determine the percentage germination. For example, a box contains 100 seeds, and 62 sprouts are counted in two weeks after sowing. This means that the seeds in this test germinated 62 per cent, which is too low germination for seeding. Note also the appearance of young seedlings, if strong and vigorous, or weak and spindling. Seeds producing weak seedlings

will not produce strong plants when sown in the field.

Note—Frost damages vitality of grain by drying up water contents of cells. Well ripened grain containing little water will not suffer so much from the effects of frost as does immature grain. When a plant is subjected to a few degrees of frost water oozes out from the cells into the inter-cellular spaces and forms crystals of ice. If the thawing out of the grain after slight frosts is gradual very little damage to the grain occurs, owing to the cells reabsorbing their moisture. If, however, the thawing occurs rapidly, the cells do not reabsorb the moisture, causing evaporation and drying up, and death of the germ cells.

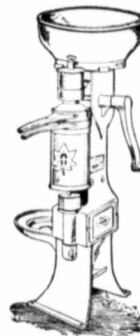
The sale of seeds in Canada is regulated by the Dominion Seed Control Act. This Act provides a standard for purity and vitality of all kinds of seeds and it is illegal to offer for sale seed which is below this standard. Persons wishing to secure copies of this Act should apply to the Dominion Seed Branch at Ottawa, Calgary or Regina.

A Fine Market for Your Dressed Poultry

The third annual show of the Brandon Dressed Poultry Association is announced to be held in Brandon City on December 9th and 10th. This is an association of well-known Manitobans who take more than an ordinary interest in the raising and marketing of poultry. Hon. G. R. Coldwell, is hon. president; president, A. R. McDiarmid; vice-presidents, James Kircaldy and D. W. Beaubier; secy-treasurer, W. I. Smale. The directorate consists of S. A. Cox, V.S., Sheriff Henderson, J. H. McGregor, John W. Knowlton, Thos. Chambers and W. I. Smale, all of Brandon; W. R. Bowman, Forrest, and A. W. Cooper, Treesbank.

The association was organized for the purpose of establishing and conducting an annual Dressed Poultry Show in Brandon, along the lines adopted by the Guelph Winter Fair. The great success of the two shows held in December, 1912 and 1913, which assembled the greatest exhibits of the highest standard of dressed poultry ever seen in Canada has

"BIG OPENING FOR CANADIAN PRODUCTS"



In effect and literally this headline is written over the gateway of every mart and centre of commerce in Europe today. The manufacture of millions of tons of CHEESE alone is stopped for a long period in countries where it was a staple industry. This misfortune is your opportunity. With a

"MAGNET" Cream Separator

and a few friendly well-bred cows you have an equipment second to no other money-making scheme in these days.

The Perfect Skimming

of the "MAGNET'S" one-piece skimmer is only one of its many individualities. Its SQUARE GEAR is another. In the one-piece skimmer the cones are set so that the centrifugal force breaking the connection between the butter fat and the milk to make perfect separation has absolutely free action. Beware of cones that are placed close together, as is the case with all worn gear separators, as they introduce Frictional separation which prevents the full action of the centrifugal force and therefore, irregular separation, and then besides the insertion of many extra pieces which are really Mechanical obstructions and are also very troublesome to clean.

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.

Will run all day without attention, furnish exactly the power you need, maintain a uniform speed and save you money every hour it works.

Use either Kerosene or Gasoline for fuel. Best economist of time and money you can place on the farm.

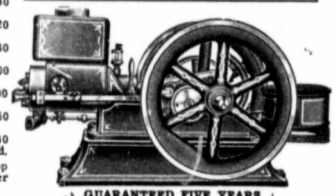
PRICES FOR CASH WITH ORDER

1½ H.P. Air Cooled Engine	\$ 38.40
1½ H.P. Hopper Cooled Engine	39.20
2½ H.P. Hopper Cooled Engine	56.80
4 H.P. Hopper Cooled Engine	104.00
6 H.P. Hopper Cooled Engine	148.00
8 H.P. Hopper Cooled Engine	209.60
12 H.P. Hopper Cooled Engine	314.40

Prices quoted are for skid mounted. These engines will all develop from a half to a horse power more than they are rated above.

THE WATERLOO BOY GASOLINE ENGINE

LOWEST IN PRICE BECAUSE MADE IN LARGE QUANTITIES AT LOW MANUFACTURING COST



1. GUARANTEED FIVE YEARS

THE DEXTER ELECTRIC WASHER



Its absolute safety, ease of operation and substantial construction make a strong appeal to every prospective purchaser.

Admiration is expressed by everyone at the neatness, safety and convenience of this machine. When in operation, one becomes enthusiastic at its marvelously smooth and perfect work, making wash-day delightful. Put in the "dope" switch on the electricity and it is practically all over but looking at it. Absolutely safe, as all moving parts are entirely covered by smooth, metal cases. No danger of injury to the fingers—no chance of tearing or soiling the clothes as the Dexter cleans by agitation rather than by friction.

Prices for cash with order: Hand Machine (with free pulley), \$12.40—No Wringer. Power Machine, complete, \$22.40. Electric Machine, complete, \$55.00 (can only be used where electric power is available). If interested write for Catalogue.

Address all inquiries to Winnipeg.

Canadian Agents

All prices quoted are f.o.b. at Winnipeg

Burridge Cooper Ltd. Winnipeg and Regina

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

clearly demonstrated that a poultry show is a necessity in extending and encouraging the poultry industry.

It is not designed to be a revenue producer in any way for the association but it furnishes a cash market for all the dressed poultry that is shown. Last year between ten and eleven tons of exhibited poultry were sold. This year the Department of Agriculture is interesting the Winnipeg wholesalers and has undertaken to have buyers at Brandon to take all the poultry that is offered.

We are happy to note this last feature of the announcement since the exhibit of "dressed poultry" in the merchants windows of Winnipeg, as well as what has been shown recently in the "Farmers' Market," has been of a most woeful description. With a few noteworthy exceptions, the birds look as if they had been trained down to the last vanishing point of "fitness" to go to Europe with the expeditionary force. What we have seen lately by the dozen are certainly very athletic looking hens and, judging by their severely attenuated legs, must have walked to the Winnipeg market from a far more distant point than Brandon—or even Treesbank.

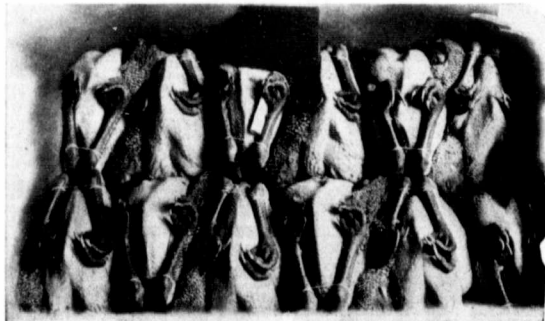
As a matter of fact, neither Brandon nor Treesbank would risk their high reputations by sending such consignments to any market. We respect "old age," but not in "spring chickens" and would certainly never take off our hat to the very ancient, shrivelled, battered and broken carcasses we see in the store windows these days.

We strongly urge upon every interested reader who wants to buy the choicest product of Manitoba's poultry breeders, who has dressed poultry to exhibit in competition or to sell, to send to Mr. Smale for the most attractive list of prizes offered, rules of competition and conditions for sale, etc.



"Did you notice that woman who just passed?" inquired he.

"The one," responded she,



Champion Case of Fatted Cockerels exhibited by T. M. Brown at Brandon Dressed Poultry Show, 1912.



The Aristocrat of the Road

Business Basis Tires

Automobile owners everywhere are rapidly learning to buy tires on a real business basis, viz.: the basis of ultimate economy.

That is the reason why Dominion "Nobby Tread" Tires are today the largest selling high-grade anti-skid tires in the world.

Take the taxicab as a concrete example. Taxicab companies have to operate on a business basis; they have to buy tires on a business basis. That is why today in England, Canada, and the United States thousands of

Taxicabs use "Nobby Treads"

Taxicab companies are the most constant users of tires. They have to watch tire mileage expense all of the time.

Taxicabs must have real anti-skid protection—real tire dependence—real freedom from puncture delays—and lowest cost per mile tire.

Dominion "Nobby Tread" Tires solve any automobile owner's tire problems the day he decides to buy tires on a business basis.

Based upon their remarkable mileage records

Dominion "NOBBY TREAD" Tires

are now sold under our regular warranty—perfect workmanship and material, BUT any adjustments are on a basis of 5000 Miles.

Thousands upon thousands of veteran motorists now use "Nobby Tread" Tires on their front and rear wheels through all seasons, because they give real anti-skid protection and the lowest cost per mile.



Dominion Tire Company Limited

Berlin Ontario

Canadian Consolidated Rubber Company, Limited

Selling Agents, MONTREAL, P.Q.

28 Service Branches Throughout Canada.

NOTE THIS—Dealers who sell DOMINION TIRES sell the best of everything.

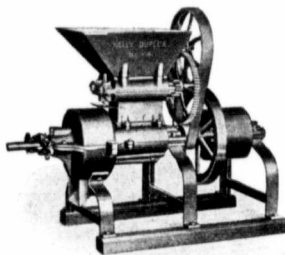
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"with the gray hat, the white feather, the red velvet roses, the mauve jacket, the black skirt, the mink furs, and the lavender spats?"

"Yes."

"Not particularly."

The Kelly-Duplex Feed Mill



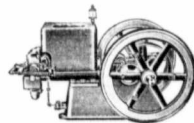
SOME SPECIAL ADVANTAGES:

1. We have a grinding surface just double that of any other mill of equal size, and can therefore do twice as much work, other things being equal.
2. We cannot only do twice as much work, but can do it with much less power.
3. We grind meal with a uniformity that no other mill can approach.
4. By our mixer, you can grind different kinds of grain in any proportion wanted. Write for complete catalogue, showing various sizes.

The Celebrated Fuller-Johnson Engines

Gasoline and Kerosene
Ask for Catalog and Prices on the size of Engine you need

HENRY RUSTAD, Distributor
108 Carlton Building, Winnipeg, Man.



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XXXXXXXXXXXXXXXXXXXX

No. 1 Hard

Nov. 4th, 1914

XXXXXXXXXXXXXXXXXXXX

last year. This increase means another 3,000,000 bushels of seed required to be kept at home. It becomes evident that early estimates of the 100,000,000 bushels of marketable wheat (after allowing for seed and interior milling) will have to be revised downward, even as the United States crop estimate of spring wheat has had to be reduced each Government report. Yields have been disappointing.

THE crop movement this season was remarkably early and in the beginning of October receipts began to fall off, the result being that inspections down to November 4th, despite the early movement, are considerably less than those of a year ago.

	1914 Bus.	1913 Bus.
Wheat	49,034,700	70,455,900
Oats	11,552,500	17,916,600
Barley	2,199,150	7,215,750
Flax	1,237,500	3,390,200

And with lessening receipts, drought in Australia, frost in the Argentine and more widespread devastation in Europe, came a steady improvement in our markets. Only the big receipts in the Primary Markets of the United States and the increase in their visible, retarded the sharpness of the advance for a time. The export demand has been the keenest in many years. The Allies are resigned to a long, tedious war. Russia cannot ship either through the Baltic or through the Black Sea, so America's biggest competitor has for the last two months been entirely out of the market and now that war with Turkey is a fact, Russia will likely be unable to ship for many months to come. The British crop was a good one but now that Britain must feed at home several millions of refugees from Belgium and Northern France, a vast army from Overseas in training, besides her own people, and on the Continent must feed a great army at the front, it follows that she must buy heavily in all our markets. The wheat has moved rapidly off the Pacific Coast and statistics indicated that on October 31st over 70 per cent of the marketable wheat was out of the hands of the United States farmers. It is very probable that 80 per cent has gone from the hands of our farmers. The country elevators last reported having around 20,000,000 bushels in store. This will likely decrease considerably before November 20th, as much will be shipped before the close of navigation and many houses closed.

The excellent weather has enabled Western farmers to get their plowing done early and well and a safe estimate would place the acreage prepared for wheat at 15 per cent more than

Reports of at least three frosts in the Argentine are confirmed at the time their crop was from the bloom to the dough stage and much damage may have resulted. Harvesting will be general in the north in a fortnight. In Australia rains came too late to help much and their quantity for export will be very small. The Government is now conserving the balance of stocks for the use of the Empire. From Germany and Austria little can be learned, except that wheat, rye and animal foods are all advancing rapidly. Broomhall predicts a serious shortage of food supplies for all European countries if the Dardanelles are kept closed—and now that Turkey is in the conflict this seems most likely. The world crop is thought to be at least 400,000,000 bushels short of last year. The United States has seeded about 40,000,000 acres to winter wheat and it is said to now promise well. In Europe the winter seeding of wheat and rye has been greatly retarded by scarcity of labor of man and horse and by devastation. New Zealand announces that she will have to buy 1,000,000 bushels of Canadian wheat for seed purposes. As import duties on wheat have been removed by all European countries now at war, that saving of duty inures to our benefit as producers.

France finds her wheat crop disappointing in yield and is a keen buyer at present. The Germans in their devastation have purposely destroyed many flour mills in Northern France, hence France is taking flour readily now.

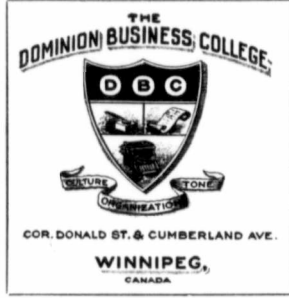
The speculative element in the wheat market is rather more bold now that a long war is inevitable. Recently exporters have been taking almost all offers, which has made brisk markets. Broomhall estimates that outside of Germany, Austria and Belgium, Europe will have to import 560,000,000 bushels and we know that Belgium and Germany have been big importers of wheat, particularly our low grade and American Durum. Farmers will usually do well to put their grain ahead to the secondary markets for sale. It seems very probable that wheat will work irregularly to higher levels this month.

Coarse Grains
As predicted in these columns, the price of oats has steadily

Good Land and Careful Farming Produces "NO. 1 HARD"

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Send Your Sons and Daughters for a Personal Training at the College or Let Us Send Instruction to Your Home by Mail.



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COR. DONALD ST. & CUMBERLAND AVE.

WINNIPEG, CANADA

No Farmer Likes His Wheat Graded as "FEED"

THE DOMINION BUSINESS COLLEGE Training will Prevent Your Being Graded as "FEED" in the Business World.

A Mail Course of Instruction this Winter will be a Foundation for a Personal Course at the College Next Winter.

Sow the Seed now if You would reap a rich Harvest later.

Write for particulars of how we teach you at your own home.

IT PAYS TO CONSIGN GRAIN

Conditions are changing. The market continually has big fluctuations. Why not consign your grain and let it be sold on these sharp flurries before the close of navigation. We carefully study your interests. For best results, consign all grain to St. Boniface, advise us, or phone or wire for prices.

Phone: Main 46, 3570 **BLACKBURN & MILLS** 531 GRAIN EXCHANGE
WINNIPEG MAN.

Donald Morrison & Co.

ESTABLISHED 1904

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

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FARMERS!

TO THE

CANADIAN ELEVATOR CO., LTD.

Grain Commission Merchants, Winnipeg

It is as much our business to give satisfaction as to secure grain shipments. We watch the grading of each car, allow liberal advances on all bills of lading and make prompt returns.

Lincoln Grinders-2 to 30 H.P.

Try One Free 10 Days

For coarse and fine grinding. Buhns are self-sharpening—sharpen themselves when run together empty—and last much longer. Also self-aligning—so you cannot get them on wrong. They "shear" the grain instead of mashing it, therefore run much lighter, easier and more quietly. Especially adapted to the Cushman Binder Engines, 4 to 8 H.P., or may be used with any other engine.

LINCOLN GRINDERS are built for Canadian conditions. Try one 10 days at our expense. If you cannot grind more grain with less power—it costs you nothing. Ask your dealer or write for full information. Sold only by



CUSHMAN MOTOR WORKS
OF CANADA

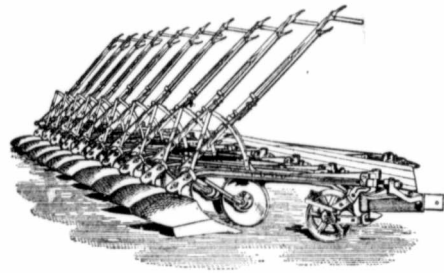
Builders of Light Weight Engines of Farm and Binder Use. Distributors of Reliable Power Driven Machines, such as Flouring Mills, Saws, Cream Separators, Power Washing Machines, Etc.

266 Princess St. WINNIPEG, MAN.

Quality Pump Jacks, Double Geared, Double Braced

Buy An Oliver Plow

OLIVER Plows are made to meet Western Canadian plowing conditions. Oliver sulky and gang plows have landed beams which enable you to work four horses abreast with no horse walking on the plowed ground, and without side strain on the beams. Shares and moldboards are correctly curved; the extra high wheels have adjustable bearings and extra wide tires. These features mean light running, long wear, better work—the right plow to buy.



Oliver tractor-gangs are built in 4, 5, and 6-base sections, enabling you to use a gang with any desired number of bottoms. This construction also makes the Oliver tractor-gang the most flexible of all. It follows the engine steadily and plows evenly.

We call your attention here to only a few of the many important features of Oliver plows. You will find just the plow you need in the Oliver line. See and study the plows for yourself at the I. H. C. local agent's place of business. Get a catalogue from him, or write the nearest branch house.

International Harvester Company of Canada, Ltd.

WESTERN BRANCH HOUSES

At Brandon, Man.; Calgary, Alta.; Edmonton, Alta.; Estevan, Sask.; Lethbridge, Alta.; North Battleford, Sask.; Regina, Sask.; Saskatoon, Sask.; Winnipeg, Man.; Yorkton, Sask.

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

worked up. Cooler weather and a more urgent feeding need and a brisk demand for oats for shipment to France and Sweden have helped to put oats to new high levels. And with greater armies being put in the field all the time, it appears that there will be no cessation in the demand. Corn alone is a safety valve on oat values and Expert Snow is out with a bullish estimate on the new corn crop. As long as the oats are taken for export in such quantities and there is such a good home demand, higher levels will be inevitable. Good seed oats will be very scarce and should be kept, as the demand will be already insistent.

Barley has steadily come to its own. Note the inspections given above. A steady revival of business conditions in the United States has also helped barley. Nowhere are stocks large or pressing on the market. This grain will likely continue to move slowly upward.

Flax

This grain languished all the month of October with a poor demand. Everyone knew it was away below its real value but no improvement seemed in sight till the recent frosts greatly damaged the Argentine crop. Then a big advance was recorded in three days. The market will now likely hinge upon the conditions from

week to week of the Argentine crop. The foreign demand for oil cake has also improved considerably. Farmers should keep flax at home whenever at all possible.

No Falling Off in Students

The total enrolment of students at Manitoba Agricultural College this year shows a decided increase over 1913. In the Home Economics division there are several more young women, there being an increase of about 20 per cent; while in Agriculture the 1st, 2nd and 5th year classes will be

larger than in any previous year at the opening date. This increase in attendance indicates very clearly that people in the country are not allowing the unsettled commercial conditions to affect their programme of providing suitable education for their sons and daughters.

Growing Interest in Poultry

In connection with the methods of farming being practised in Manitoba, it is interesting to notice from time to time evidences of greater interest being

taken in stockraising, dairying and poultry raising. The Extension Division of the Manitoba Agricultural College announces that 22 seed fairs, being held under the auspices of agricultural societies during the next few weeks, are everyone offering special prizes for dressed poultry and a number have requested that the college supply lecturers, capable of giving instruction in the feeding and dressing of poultry for market.

“Did you ever dress a chicken?”
“No, my girls are all boys. But I understand it costs a heap of money.”

NOTICE The William Galloway Co. Ltd. of Canada

Save \$50 to \$300 on Engines
Our new low engine prices are the lowest. Every Galloway engine is sold on a 30 days' trial, backed by a year guarantee. They must please you or you can return them and we will refund your money and pay all the freight. You take no risk. Made in sizes from 1 1/2 to 15 H.P. Either stationary or mounted on trucks or equipped with wood sawing attachment. Send for catalogue.

Save \$35 to \$50 on Spreaders
Galloway Manure Spreaders have always been popular in Canada. Now, we can supply you right direct out of Winnipeg at a tremendous saving to you. Don't buy any other style or make until you get our new low prices. Nine different styles and sizes to select from. Attachment spreaders that will fit any size farm truck, complete or separate. Get Free Catalogue.

Save \$35 to \$50 on Separators
The new Galloway Sanitary is the most modern, most sanitary and closest skimming cream separator on the market. Gear-
ing runs in a constant bath-in-oil. Easy to run, easy to clean. A genuine Mechanical Marvel. The equal of any machine selling at twice our low prices. We guarantee it. Send for one. Give it a good 90 Day Working test at our risk. Write for catalogue.

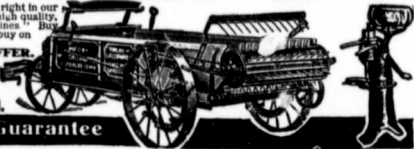


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OUR YOUNG FOLK CONDUCTED BY Cousin Doris.

Girls' Cozy Corner

Prize Essay.

Laura Secord.

By Mary Murphy, Hanley, Sask.
When the United States declared war on Great Britain in 1812, the war seemed to be in favor of the Americans. There being scarcely five thousand troops in Canada, and Great Britain, who was at war with Napoleon, had use for all her soldiers, could give very little aid.

It was in the battle of Queenston Heights that General Brock was killed. There was a large number of men killed and wounded. Amongst the wounded was Captain Secord of Queenston. His wife, Laura Secord, saw her husband wounded, and went to his aid. Three of the enemies soldiers attempted to kill him, but she called for help and saved him. Captain Secord did not die, but was an invalid for a long time. The Secords, on account of his health, were obliged to stay at Queenston.

Queenston was occupied by an American force, there being only a few Canadian families left. The Secords were quite often obliged to feed the enemy's soldiers. One morning in June of 1813 a number of officers demanded food from Mrs. Secord. While she was preparing the meal they discussed their plans. She made the meal, and at the same time listened to them. She found out that they intended surprising the little handful of men at Beaver Dam. The soldiers should be warned, but who was to do it. Captain Secord was unable, and Laura, it would be rather hard for her to pass the enemies lines. Next day at daybreak she started off. She chased ahead her cow and took with her her pail and stool. Every time she sat down to milk the cow the cow would take a jump and run off. At last the cow ran into the bush, and the cow was left there, and Laura kept on her journey. Laura took the cow in order to deceive the American

soldiers. She pinched the cow to make her run away.

Laura Secord kept on her lonesome path; hearing once in a while the war whoop of the Indians. At last toward midnight she met a party of Red Indians. She couldn't talk to them, but made them understand what she wanted. It happened to be that these Indians were on the Canadian side. If they happened to be fighting on the American side she would have been killed. This was her biggest danger. These Indians soon gave the warning to the officer in charge of Beaver Dam, and soon Laura Secord was safe in the fort. She saved the fort against the enemy. Laura lived until 1808, and died at the age of 93 years.

Madeline De Vercheres.

Madeline De Vercheres was a very brave girl. In the year 1692 she defended the fort with her two brothers. Her mother and father was away in Montreal on a visit.

She was expecting a visitor, Madame Fontaine, fresh from Paris.

One morning Madeline walked down the river, accompanied by a servant. Suddenly, they heard the report of a gun. Madeline said "Run to the top of that hillock, and see why that gun was fired!" She waited anxiously for the return of Lavoilet. He came running back saying, "The Iroquois; the Iroquois, run for your life!" When turning she saw some fifty Iroquois trying to head her off from the fort, but Madeline was too fleet for them.

The Indians did not attack the fort in the day time, but decided to search in the woods for stragglers. Happily, however, while they were away the boat with the Fontaine family arrived.

At night Madeline said she would watch the fort with two others who were fired a gun, and that the rest should defend the women and children in the blockhouse which was the strongest place.

As the Indians sat around their fires at night to discuss their plans for the next day they heard the shout, "All's well" rang from blockhouse to fort and from fort to blockhouse. They thought the fort must be full of watchful soldiers.

Madeline contented herself with short intervals of sleep, and her brothers imitated her, and never showed the slightest sign of fear.

After seven days the splashing of paddles was heard in the St. Lawrence. Madeline walked down to the river and saluted the officer, "I resign your command, sir," she said. "Which could not have been more bravely held," was the reply.

The Iroquois did not try to attack the fort, but they were pursued and defeated.

Once, rifle in hand, she saved the life of a young man from the Iroquois, who afterwards became the husband of his brave preserver.

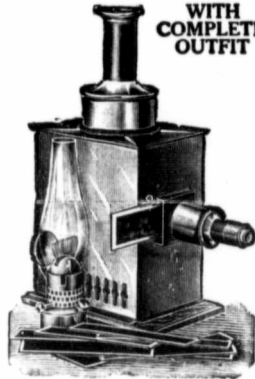
Florence Stanley,
Kenton, Manitoba.

An Unsung Heroine.

Among the unsung heroines of every day life should be counted "Diphtheria Fannie," a sorrel mare, who, although she never led a charge of light brigade or carried a message to Ghent, has played the modest heroine by saving over 1,000 lives.

Fannie is the veteran of several horses at the Cutter Laboratories, who, through gradual process have been made immune to diphtheria. Every month careful attendants bleed Fannie of four to six quarts of blood. From this the serum is removed, tested on guinea pigs and made into diphtheria anti-toxin.

BIG MAGIC LANTERN WITH COMPLETE OUTFIT FREE



Please remember that this is a large Stereopticon over one foot high. Every part of it is metal excepting the lenses. It is made on the latest improved construction, having extra large ventilators to prevent over heating. The French lens is made extra thick and has great projecting power, so that when combined with the telescope lens in front and the powerful lamp, reflector at the back the magic lantern will show a perfectly clear picture in natural colors, five feet in diameter. With each magic lantern we also send free nearly fifty pictures, all different, some of them very fine; in addition to this we send you special instructions telling you how to make hundreds of extra pictures yourself at a cost of only a few cents.

Boys and Girls here is your chance to entertain your friends and even make a little pocket money if you wish by giving Magic Lantern Shows. You can get one of these complete outfits absolutely free by simply selling 24 of our Multi-Color Olograph Pictures. They are 16 inches by 20 inches in size and sell on sight. They include reproductions of Famous Paintings, originals of which cost hundreds of Dollars. They are all suitable for framing, and are well worthy of a place on the walls of any home. These pictures will sell in Art Stores at 50 cents, you can sell them at an hour. Especially as we will send you a Prize coupon which you can give with every picture you sell, and will entitle your customers to receive an extra present from us absolutely free. Order to-day, right now. When sold return one money \$3.00 and this Big Magic Lantern with complete outfit as above described will be sent to you at once.

"NOTE"—If you prefer you may have your choice of any of the following premiums for selling the same amount of pictures as above—Brownie Camera; Football; Colorograph and 100 Lines; School Bag and Brass Pencil Sharpener; Catcher's Mitt. These and many others. Complete Catalog will be sent with your order. Address

COLONIAL ART CO., Desk M 5 TORONTO, ONT.

It is estimated that in the five years of Fannie's service, she has saved 1,250 children from what used to be almost certain death.

Fannie lives like a queen. Fed with delicacies, her temperature taken twice a day and not permitted to go out into the open air until noon, Fannie has but one kick coming. She is extremely likely to catch cold and contract pneumonia because of her lack of blood, and the greatest care has to be taken to prevent her from breaking down.

Bumble Bee Points Way.

Thomas A. Edison, the great inventor, says the ordinary bumble bee holds the secret of aviation. Mr. Edison holds that a bee beats the air 200 times a second with its wings, and that a heavier-than-air machine must do the same. The inventor is now working out the derivation of electricity direct from coal.

The Heroine of Vercheres.

The time of my story is in the fall of the year 1692.

Madeline, a girl of fourteen, was left with a few soldiers, two younger brothers and some women and children in charge of a fort at Vercheres, her father being at Quebec and her mother at Montreal. Vercheres is about twenty miles below Montreal, on the St. Lawrence River.

One morning Madeline was down by the river, to see if some friends she expected were coming, when she heard shots, and a man called to her to run as the Iroquois were coming.

She ran back to fort, bullets whistling around her ears, and getting the people inside shut the gate. With the help of the men she hastily repaired the fort, and got guns for herself and her brother with which they and the soldiers fired through the loopholes at the enemy, she also had a cannon fired.

After awhile she saw the people whom she expected along the river, and finding name of the soldiers brave enough, went herself to meet them, and by putting on

a brave front brought them safely to the fort.

As evening approached a violent storm came on. They carefully guarded the fort for fear the Iroquois would try to get in under cover of darkness, keeping up cries of "All's well" from the fort to the blockhouse, making the Iroquois think there was a large garrison.

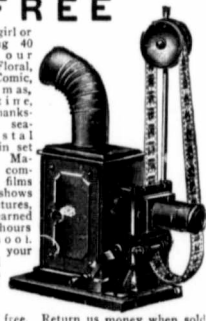
Madeline and all in the fort were kept in alarm day and night for a week, as the Iroquois were still lurking around.

At last, a lieutenant, with a company of soldiers came. Madeline went to the river to meet them, saluted and said "Sir, I surrender my arms to you." He answered gallantly, "They are already in good hands."

The people in the fort would doubtless have been butchered by the Iroquois if she had not been there to inspire them.

Moving Picture Machine FREE

To the girls boy selling 40 sets of our Birthday, Floral, Scenic, Comic, Christmas, Valentine, Easter, Thanksgiving in season, Postal Cards (6 in set for 10c). Machine is complete with films and slides, shows great pictures, can be earned in a few hours after school. Send in your name and address plainly written. We will send cards free. Return us money when sold, and we send premium post paid. Get our big premium list for boys and girls.



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FREE HANDSOME MUFF



GIRLS—This beautiful stylish muff will keep you warm and warm this winter and it is so handsome and cozy that you will be the envy of all your friends. It is the very newest and best shape—and extra large—measuring more than 15 inches wide by 18 inches deep. It is lined throughout with fine quality black satin with the fur on the inside and finished with a silk wrap cord. This lovely muff is warm and cozy, will give you years of wear and satisfaction and is surely just what you most want.

We are prepared to give away absolutely free 100 full new Royal Japanese Perfume. Simply send your name and address today and we will send you 35 handsome bottles in different delicious odors. Lily of the Valley, Carnation, West Violet, White Rose, etc. Help us advertise this delightful perfume by selling these same perfume bottles to your friends at a special introduction price of only 15c each. It is very easy to sell many ladies buy 5 and 10 bottles of this perfume on sight. Return us \$3.50 when the perfume is sold and we promptly forward the muff just as represented. All charges paid right to your door. We guarantee satisfaction. Write today to

THE REGAL MANUFACTURING CO. 5 Dept. M. 29 Toronto, Canada Name this magazine when writing advertisers

to bravery by her cheerfulness and unflinching courage.
P.S.—I was very pleased to see my letter in the June number as Prize Letter.
Yours truly,
Alice Hill,
Box 312, Rouleau, Sask.

The Heroine of Vetchers.
Vetchers is on the south shore of the St. Lawrence. A strong blockhouse stood outside the fort. It was connected with it by a covered way.
Madeline was a girl fourteen years old. Her father was at Quebec, and her mother in Montreal. The men were at work in the fields, and Madeline, an old man of eighty, two boys, two children and some women and children were the only ones left to take care of the fort. Madeline was at the landing-place with a hired man when she heard firing from the direction where the settlers were at work. The man cried out, "Run, miss, run, here comes the Iroquois." She turned and saw about forty of them. She ran for the fort. At the gates she found two women weeping who had just lost their husbands.

She then went to inspect the fort, and found some palisades down. She ordered them to be put up, and she helped to carry them herself. She then went to the blockhouse where the ammunition was kept, and there she fought the soldiers, the one with a lighted match in his hand. She asked him what he was going to do with that match. He said he was going to light the powder and blow them all up. She told him to go out of the place. She then took a gun and said to her brothers: "Let us fight to death. Remember father has taught us that gentlemen are born to shed their blood for the service of God and King."

The boys and the soldiers began to fire at the Iroquois through the loopholes.

At nightfall a violent storm set in, and she told Fontaine with the soldiers and women and children to go to the blockhouse, while she with the two boys and the old man would stay in the fort.

She placed her two brothers on two of the bastions, the old man on the third, while she took the fourth, and in spite of the storm the cry of "All's well" were kept up from the blockhouse to the fort. The Iroquois thought the place full of soldiers.

They were about a week in alarm when at last a lieutenant arrived with about forty men. She opened a gate and placed a sentinel there and went down to the river to meet them. As soon as she saw the officer she saluted him and said, "Sir, I surrender my arms to you." He answered, "They are already in good hands."

Hilda Hendrickson (age 14),
Dundurn, Sask., Canada.

Canadian Boys' Camp

Boy's Prize Essay.
Red Ruff.

Dumas, Sask., Oct. 2nd, 1914.
Dear Campers:—I thought I would write you another letter, and tell you a true story of a partridge. I have chosen to call him Red Ruff.

It was in the spring of 1914, when I first made his acquaintance. It was a dull day in the first of the spring days. I had heard him drumming down in the big bluff behind my home. I thought I would have a look where he was, so I went in the direction I heard the drumming. There sure enough was a beautiful red ruffed cock-partridge. He stole off the log and went away, and I went away also. Soon he was back again, and I crept down softly to where I could get a good view of him. In a short time up went his wings, and he beat in loud tattoo upon his breast. Thump—thump—thump—thump—thump—it rang out again and again.

Next day Red Ruff was back drumming again. I had a thought of catching him, so I made a binder-twine snare, and set this on his log, and had it attached to a long string, which I could pull and so tighten the snare when Red Ruff began to drum. I tried several times, but he would always get away. One night I left the snare set, and next morning when I got up I found the ground covered with snow. I did not go down to my snare till near evening, and in it I found two of Red Ruff's toes. I took up my snare for fear he would not come back.

Soon I noticed he drummed less and less, and later not at all. I thought he must have a mate, and that they had a nest. I was right, for one day I was out walking, and in the bluff I saw a mother partridge and a train of ten little ones. They were soon able to fly, and then I saw more of them. Somehow four of them disappeared.

In September, the gunner's moon, I shot two of the family, and sought to get Red Ruff. Never could I get a chance to shoot him, although I tried several times.

On the first of October Red Ruff met a sudden end. About seven o'clock I went out with the rifle. I wanted to get something for dinner. I ran on to a partridge sitting on a branch. Bang! Down fell a flopping partridge. The shot awakened another and another bang. Red Ruff appeared from among the roots of an old willow. Bang, and up flew Red Ruff, but he fell about twenty yards farther on. I noticed that two of his toes were missing on the left foot.

Now I must bring my story to a close, hoping to see it in print.

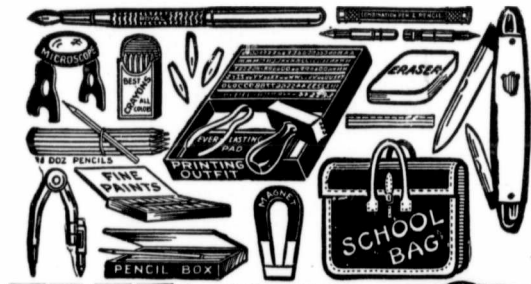
I remain, wishing success,
Willie Brownlie.
I think Red Ruff was a hero.—C.D.

Where are the essays on "Heroes" from our boys? The offer is open for another month.

Tribute to the Horse.

The following tribute is an extract from a speech by Maj. Oliver S. Johnson of Tipton, Iowa, at a pure bred horse sale where the horses sold for nearly \$20,000.

There is something about the good horse that is inspiring, firing the ambitions of the better man within us. The horse is a friend most noble. He has led the onward march of progress from the rising sun to the Golden Gate. His power has built the railroads and dug canals. He joins forces with man in tilling the farms and teaming forests, hauling lumber, wheat, coal and cotton. He halts neither for heat nor cold, rain nor sunshine. He brings the doctor at our birth, the minister to our wedding, and the casket to its final resting-place. In peace and in war, he carried Napoleon, Washington, Lincoln and Grant. Visit the French cathedral in New Orleans and your eye beholds that magnificent piece of sculpture work, "Jackson and His Horse." Take a trip to Lincoln park, Chicago, and you admire that lifelike statue of "Grant and His Horse." The dying words of King Richard in the battle of Bosworth were, "A horse! a horse! My kingdom for a horse!" His



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powerful instinct foretold the eruption of Vesuvius and halted him on the brink of the precipice in the inky midnight darkness. He played his part in Custer's Big Horn massacre, and in the charge of the Light Brigade. He carried his rider down the valley of the Conemaugh through the city of Johnstown ahead of that awful flood and perished in its raging waters. He followed Moses through Egypt and into the Red Sea.

Cocky Bantam Plays Horse.

Cockiest bantam in all England is old Chanticleer. He was trained in Windsor park and his business is to amuse the two delicate little sons of King George. These princelings are not as strong as they might be, and they have to play very quietly. Chanticleer and two linnets are their favorite playmates. The cock is hitched to a small cart, Mr. Linnet reclines in the rear seat, and Mrs. Linnet, being a militant old dame, perches on the driver's seat and runs things to suit herself.

Why Fish Have No Eyelids.

Have you ever noticed the vacant stare of a fish and wondered why they have no eyelids? If you have not it will be interesting the next time you visit an aquarium to note closely the eyes of the fish and observe how they are compelled, either in their sleeping or waking hours, to peer constantly out through the water.

As a matter of fact, fish have no need of eyelids. It would be violative of the economy of nature for them to be equipped with such a useless appendage. In the water there is no dust to get into the eyes, nothing to scratch them or mar them with blows, and the great cushion of water that for ever surrounds them protects them from many other dangers which confront land animals.

It will be seen, therefore, that nature did not merely neglect to fit fish with eyelids, but apparently did so with the purpose of conserving the energy that would be needed in maintaining them for use at some more important part.

A Bundle of Live Wire.

By Fannie M. Wood.
What has become of the old-fashioned farmer who made an honest effort to own and keep in good repair all the tools, implements and vehicles he had occasion to use?

Queer how some of us who can not afford certain things will make a terrible effort to follow the one who can. All the time we fully realize we're big geese to waste energy thus.

There are a few employers of farm help who need to get out in the field with their men. They would have a clearer idea of what a hand should accomplish in a certain time if they would do a day's work themselves occasionally. Is the hammer lost, the axle grease misplaced? Ask the boy what became

of them. The boy on the farm comes handy, for he can be safely accused of responsibility for about everything that goes wrong. But this is not fair to the boy.

When every one seems to be in a mad race for the almighty dollar, how good it seems to get a postcard, a letter or a cheery greeting from a kind, thoughtful friend. A little unexpected act of kindness when we are slightly blue gives new life and courage.

Who remembers the good old practice of reading aloud in the evening, the eager faces waiting to hear "what came next"? We kids stepped lively doing up the evening chores so that the time for reading might not be too brief! This fine old custom should be revived.

The time is here when a bright light is a great comfort. If your coal-oil lamp smokes, look to the wick. Old wicks become clogged and should be changed often. And the burners get sticky and gummy; boil them in washing soda and wipe them perfectly dry.

The country store on Saturday afternoon or evening at this time of the year is a great meeting-place for farmers' wives. They talk over household and poultry problems. Strangers in the neighborhood get acquainted in this way, young housekeepers learn new wrinkles helpful in the daily grind. And, oh, the pleasure of laughing and chatting with sister women! All go home wonderfully rested. God bless and keep the country store.

It takes all kinds of folks to make a world, including the farmer, whose poor fences encourage stock to break through and damage his neighbors' crops.

It's funny that the farmer with dilapidated fences doesn't get wise and see how little his neighbors must think of him when they are tormented to death by his stock breaking out.

Young Wisdom

Stranger: "What is your name, little boy?" Little Boy: "Willie." Stranger: "Willie what?" Little Boy: "Willie Don't, I guess. That's what mama always calls me."

Little Bertie had just been stung by a nettle. "Mother," he asked, "if a bee settled on a nettle, would the bee sting the nettle or would the nettle sting the bee?"

Dickie, staying on his uncle's farm for the first time in his life, saw a young retriever pup in the yard whirling round and round chasing his tail. "Oh, uncle!" he cried, "what kind of a dog is that?" "That's a watch-dog, sonny." "Oh, I see!" said the little fellow; "then I suppose he's winding himself up!"

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A Simple Creed

By ARTHUR WALLACE PEACH

No greater creed the sages old can give
To teach us how our human lives to live;
No wiser, deeper, high philosophy
To help us bravely face eternity;
Nor can we learn a creed of stronger
power
To help us bear the burden of the hour.
A surer way to win some meed of bliss,
Than you will find, a poet wove in this.
Try in some small and earnest way
To make your life grow better, day by
day.

Gossip Gleanings.

Sister Elizabeth Fedorovna, sister of the Czar of Russia, is a devoted nun.

Queen Mary of England never appears in public without an umbrella.

Ninety-eight per cent of the women in Kansas are members of farmers' institutes.

Women act as steamship captains in Norway.

"A nation can never advance beyond the point reached by its women," says Mrs. Ernest Thompson Seton, who believes in the vote for women.

"Why should it be an annoyance that women wish to express an interest in our government?" she asks.

"As mothers and wives and sisters, our thought is an uplifting one, and it is only our wish to make the world a better place to live in than it has ever been. As we look about us we see evils that need to be remedied.

The mothers' pension law is a success in St. Paul.

Capable, conscientious mothers far outnumber the slack, indifferent ones, says the St. Paul (Minn.) Daily News.

The untidiness of homes and the impvidence of mothers in the other cases have been overcome by the constructive and supervisory work in connection with the cases by the volunteer investigators for the juvenile court administering the pensions.

Only one woman of 119 drawing pensions was unworthy. All the rest are making the very best use of the money for their children.

Such is the substance of the semi-annual report of the investigators of mothers' pension cases made to Judge Grier M. Orr of the juvenile court last month.

The reports were presented by Florence Fredrickson representing the Associated Charities; Mrs. W. J. O'Toole, Guild of Catholic Women, and Miss Lydia Weinzierl, Protestant league, who had personal supervision of cases assigned to them by Judge Orr.

The pineapple pack in Hawaii this season is expected to reach 2,000,000 cases. Canning pineapples was begun only in 1909.

Apiculture is a most interesting avocation for women. With their infinite patience and love of detail, the work has an especial appeal to the housewife.

"Ten commandments of good citizenship have been formulated by the Chicago Woman's Aid, an organization headed by Mrs. Moses L. Purvin. Here they are:

1. Thou shalt honor thy city and keep its laws.

2. Remember thy cleaning day and keep it wholly.
3. Thou shalt love and cherish thy children and provide for them decent homes and playgrounds.
4. Thou shalt not keep thy windows closed day or night.
5. Thou shalt keep in order thy alley, thy back yard, thy hall, and thy stairway.
6. Thou shalt not kill thy children's bodies with poisonous air nor their souls with bad companions.
7. Thou shalt not let the wicked fly live.
8. Thou shalt not steal thy children's right to happiness from them.
9. Thou shalt bear witness against thy neighbor's rubbish heap.
10. Thou shalt covet all the air and sunlight thou canst obtain.

Ford Equips Hospital.

While seeking employment at the Ford plant January one of the 10,000 unemployed men was drenched with a fire hose and contracted pneumonia which was followed by tuberculosis. Henry Ford could not find hospital accommodations for the man, so he has made an offer to take over the general hospital at Detroit and make it a poor man's hospital. He will spend \$2,000,000 on the project and as much more as is necessary. The philanthropic spirit of Mrs. Ford is said to have caused the decision.

Country Church Problem Solved.

It has remained for a small church in Nodaway county, Missouri, to solve the country church problem and show what can be done by a proper understanding of rural needs and the necessary co-operation to meet them. Under the leadership of Rev. C. R. Green, now president of the North Missouri Conference of the Methodist Protestant church, Harmony county, near Ravenwood, Nodaway county, has grown in the past five years from a struggling church of possibly fifty members to a live community welfare church with over 1,500 members.

Rev. Mr. Green includes in his church work good roads, improved church and school buildings, the study of agriculture, the promotion of sanitation, athletics and amusements. This church is the head of its rural enterprises. Lectures, entertainments and dinners are frequently given at the school, and all healthful sports are encouraged. The Harmony plan is being investigated by various religious organizations of the state and elsewhere, and similar attempts are being made.

Policewomen in Pittsburg will receive \$75 a month.

The government of Kanab, Utah, is entirely run by women.

Siamese women now have the right to vote the same as men.

West Virginia.

The Woman's Club of Wheeling is working for early closing, especially upon Saturday. It is the custom of many of the stores to remain open as late as 10 o'clock Saturday evenings. As this is injurious to the shop girls from the point of both health and morals, the clubwomen of Wheeling are making determined efforts to have the custom abandoned.

Through the efforts of the clubwomen of Vermont a bill for the reporting of venereal diseases was passed by the last legislature. While the bill does not call for the infliction of a penalty for non-reporting of such diseases, the clubwomen feel that the passage of the measure is a good entering wedge that will lead to stringency in the near future.

The Vermont State Federation has a screen that it exhibits at conventions of work actually accomplished by the other social organizations, showing the clubwomen through the State Federation. Among the achievements are health bills passed, scholarships granted to eight girls, home economic institutes, bill for limited hours for working women, approved birth registration, social center work and extension work by individual clubs.

The home economies work has received material assistance by the co-operation of the bureau of the state commissioner of weights and measures, and the work of the State Federation's public health department through the co-operation of the state board of health.

The Women's Club of Credo has taken up a determined campaign against the non-enforcement of the anti-cigarette law.

The Literary Club of Sisterville has supplied the town with two fine drinking fountains.


The Woman's Club of Bluefield has supplied the town with a handsome drinking fountain, cleaned up vacant lots and induced the merchants to provide a rest room for country women.

The Woman's Club of Wheeling is interested in caring for young girls and needy women who come to the city. A deaconess is employed to look after such persons at the depot. Through this means a number of young girls have been saved from the white slaver and protection given to the girls until they could be properly cared for by relatives or other interested persons. A rest room near the depot has been provided where girls or women without means can be cared for over night. Over 150 girls and women have been sheltered there within the past few months, many of whom would have been forced to sit up all night in the station and possibly enticed away before morning.

The Woman's Club of Huntington has formed Parent-Teacher associations at the public schools, all of which have started off auspiciously.

Runs Farm as Side Line.

Miss Nancy Morrison lives on a farm in Virginia, ten miles from Washington, D.C., where she has a position in the office of the judge advocate in the war department. Miss Morrison goes home to her farm every afternoon, dons a suit of khaki and high boots, feeds 100 or more pigs, then feeds the chickens, takes her basket on her arm and picks the fruit and vegetables for dinner, which she cooks; milks the cow, changes her dress for pretty evening gown, and serves the supper to any chance guest, she may happen to have, for she is seldom without a guest.



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Mothers' Corner

The Mother.
By Mary Leonard.

Steadfast, secure, she moves within the sphere of home, guiding the steps of Innocence, Content to find in love her recompense For sacrifice; counting no price too dear, To guard her hostages, and ever near She meets the trivial needs of every day, Yet of the Future dreams, and goes her way, Uncowed by Birth or Death, by Pain or Fear. She sees again through Mary's yearning eyes, The holiness and power of her place, And all her strength conserves, a greater part To yield unto her sons, and thus serene and wise, She stores that latent fires that light the race, Bearing the torch of life beneath her heart.

The booklet, "Helps for Expectant Mothers" will be sent to any wife who requests it. Kindly enclose stamp address, P. R. H., 983, Grosvenor Ave.

From New Zealand we get the story of doing things to save baby lives. In one city in New Zealand—Dunedin, a place of 50,000 inhabitants—as the result of a really determined baby-saving campaign, the percentage of infant deaths has in five years been reduced from eight to less than four. A big-hearted doctor, Truby King, started the ball rolling. He inspired and guided the organization of a society, with which pretty soon, nearly every-

body was co-operating. It hired nurses and built hospitals and started upon a campaign to teach every parent in the neighborhood how to get ready for baby, what to do when baby came, how to feed baby—how to do all these things somehow or other (with help if necessary), even if father's wages were only \$2 a day.

This service was free, but those who could were invited to contribute to carry on the work. Any mother whose baby wasn't doing very well could have a nurse or a doctor or could go with baby to a hospital to have the trouble looked into. There hasn't been any magic in this New Zealand experiment. No wonderful new discoveries have been evolved. All the processes are familiar to doctors, nurses and mothers elsewhere. What was new was the willingness of a whole community to join in a fine pursuit of baby culture—to join in saving babies no matter how poor they were.

Children must go to school, even though half the world is at war, and they must be neatly dressed, even though "mother's" allowance is cut down and the buying power of money greatly reduced.

Under these circumstances "mother" very wisely looks over the clothes left from last year to see if there isn't something that can be remodeled into pinafores, waists or little skirts for the children's school wear.

It is very easy to make a little Oliver Twist costume out of old material. The top of an old navy blue skirt that is ragged about the bottom can be made to do duty for the skirt, and the simple, little, white or gingham waists can easily be fashioned from old blouse waists.

The "style" of these dresses is in the short, double-breasted waist to the skirt. The skirt is buttoned.

The children were dressed in this fashion in the time that Dickens wrote his immortal stories. Consequently they are dubbed Oliver Twist.

The Pinafore.
These little dresses may be made from "big sister's" discarded gowns. They are made in a kind of pinafore style, with a long waist belted about the hips. They are made with very large sleeve holes and a deep point in front and back. This is worn over a white gimpe which allows the wearing out of all the half-worn shirt waists.

An old black serge with a white blouse and bright red tie would make "Little Miss" 8-year old look as though she had a new dress straight from the best child's dressmaker in town.

Using Two Materials.
Two half worn wash dresses may be made into one pretty, little frock for a schoolgirl by combining part of an old gingham gown with another of white.

For the first two years of a child's life, the principal article of food is milk, and a quart at least should be given daily. You will very often find debilitated children, who cannot take that much milk, without developing severe indigestion, with coated tongue, constipation, and a foul breath. This is almost always due to the child's inability to digest the fat in the milk, but as the milk is so rich in proteids, we cannot dispense with it, and in these cases you will secure surprising results by giving the milk skimmed entirely of the cream, to which you have added either milk-sugar or malt-sugar in sufficient amount to bring the sugar percentage up to seven per cent. It then constitutes a most valuable food, for in the skimmed milk we have practically all the proteids found in the whole milk, and the sugar added in such increased amount, helps very materially to make up the loss in food value, as a result of having to remove the cream.

Political science had an important place on the program of the biennial convention of the Federation of Women's Clubs at Chicago last week. This department was conducted by Miss Helen Powell, the young woman Theodore Roosevelt, when he was president, sent to Panama to organize the social life of the canal zone.

Men and women of national fame took great interest in this feature of club work. Miss Powell will continue to teach political science.

Millions Pray for Peace.

More than 33,000,000 persons attended church in the United States on Peace Sunday and prayed for peace.

There are 210,249 churches in the country, and nearly every one of these observed "peace day." Prayers were offered by the ministers and their congregations for restoration of peace in Europe and for its maintenance in this country. All denominations observed the day.



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More than one quart daily during the second year should not be given, as it destroys the child's appetite for other necessary food.

After the first year the diet which should keep up the high proteid percentage, should consist of cereals, always well cooked; scraped beef, beginning with one teaspoonful daily, and in a short time increasing the amount to two teaspoonfuls daily. Soft-boiled eggs may be given by the twelfth or thirteenth month, and one-half of an egg at first, mixed with bread crumbs, later can be increased to one egg daily. Of all the cereals the one most valuable is oatmeal, because it is rich in proteid; peas and beans have a still higher percentage, and by the fifteenth month these can be given in small amounts, served as purees.

Do not deprive the delicate child of fresh air; it is essential that it should have plenty of it—even more so than though the child were perfectly well. Of course during the warm weather, the child should be out of doors practically all the time. In cold, inclement weather, a splendid method is to dress the baby as for outdoors, and put it in its carriage in a room where all the windows are open, and it should stay there for at least five hours daily. The baby may be dressed warmly and kept before the open window, as much as ten or twelve hours per day, only being brought into a warm room for its feedings. Its feet can be kept sufficiently warm by placing a hot water bottle near them. The same rule for fresh air applies to sleeping hours; the delicate child requires more sleep than his robust brother.

Diseased Tonsils.

Mrs. F. E. N.: From what you write it is evident your physician is justified in his opinion that your little girl's tonsils have surgical attention. Diseased tonsils harbor germs and feed them to other parts of the body, making good health very uncertain. Tonsillitis is exceedingly weakening and gives rise to the wandering pains you mention in different parts of the body.

Mrs. R. T. D.: Your little boy of three years is depending too much upon a milk diet. Encourage his taking more solid food, such as cereal and milk, eggs, and bread and butter for his breakfast. Broths, rare meats finely divided, suitable vegetables, stewed fruits, and light desserts will give variety at noon. Bread and milk, cereal and milk and cream toast are good for supper. He needs other elements at this time than those furnished by the milk.

The Use of Eggs.

Mrs. L. F., N.Y.: The following will suggest some ways of using eggs for your little people:

Coddled egg—Place a fresh egg with

The "Jewel"



\$8.00 Cash
\$6.00 Monthly
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No extra cash payment is required for the 12 standard 10 inch double disc records which we ship you with any of these machines on the above terms. You may even choose the selections yourself from our latest catalogue.

For further particulars and catalogue of other models write us to-day.

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Let the Grafonola Entertain You

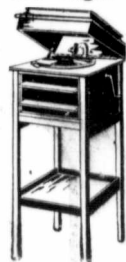
Let any one of these beautiful Columbia models help to joyfully pass the long winter evenings. For impromptu dances, vocal or instrumental music, grand opera, and the modern hit-songs, there is nothing to compare with the Grafonola's reproduction of all musical sounds.

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the shell on in boiling water; remove from the fire, and cover closely for seven or eight minutes. Serve with salt and a little butter.

Egg Float—Whip the white and yolk separately; add a teaspoonful of heavy cream and one teaspoonful of sugar, also one teaspoonful of prune juice to the yolk; then add the whipped white slowly to the mixture.

Egg and Milk Shake—Beat up an egg thoroughly and add one tablespoonful of pure maple syrup and two-thirds of a cup of milk. Strain into a glass, season with a very little grated nutmeg or vanilla.

Soft Cooked Egg—Place egg in saucepan; cover with cold water; bring to boiling point quickly; remove from fire immediately.

Poached Eggs—Drop a freshly broken egg into boiling salted water. Draw to back of the stove and cook below the boiling point from five to eight minutes. Remove the egg on a buttered skimmer and place on a round of milk toast.

Filled Eggs—Beat white until stiff; add a little salt. Place the beaten white in a buttered cup or ramekin. Make a little dent in the center of the beaten white. In this place a small piece of butter and the unbroken yolk. Set the egg dish in a basin of boiling water, cover, and cook from three to five minutes.

Scrambled Eggs—Older children of four or five years may have scrambled eggs. Avoid them fried or in omelet form.

The Red Cross Nurse
By ARTHUR GUTERMAN.

She goes amid the maddened press
Of Teuton, Briton, Slav and Gaul,
Our Nation's White Ambassadors,
The foe of none, the friend of all.

Above the guns, above the cheers
For Flag or Kaiser, Folk or King,
The common cry alone she hears—
The cry of human suffering.

And tears will fall and lips will pray,
And hearts beat warm in every land
For her who saves white heroes slay,
Oh, valiant soul; oh, gentle hand!

The Red Cross Societies need all the help possible. Women everywhere are

knitting and saving and giving for this noble society. Society teas now require a pair of socks for admittance instead of the engraved calling card. A pair of blankets buys admittance to a ball. God bless our noble self-sacrificing generous Canadian people.—P. R. H.

Home Economics

The members of the Home Economics Society will be pleased to learn that Mrs. Beattie, wife of Rev. Mr. Beattie, formerly of Miami, has been appointed to represent the Home Economics Society at the "Employment for Women and Girls Bureau," which is being managed by the Local Council of Women in Winnipeg. Mrs. Beattie knows the West so well that her appointment has met with general approval, by the women of the Bureau as well as by the Home Economics Society. Mrs. Beattie has the interest of women in rural towns and communities at heart and she is keenly sympathetic with women and girls out of work. She is trying to send out girls that will be helpful to the women in the country. There are discouraging features about the work at times. Girls do not always keep their promises and some fail to go after having made complete arrangements. The women at the Bureau always feel greatly disappointed when this occurs, but it is no fault of the women in charge. Then some unscrupulous bachelors and widowers send in for help and it is difficult to investigate every place when the work is so large. One woman with her little boy went out to the home of a widower and found most deplorable conditions and unpardonable insult. The neighbors kindly collected enough to send her back to the city. When I saw the discouraged mother with big tears in her eyes while the manly little son clung to her skirts, my heart was sorely touched. I might add that this woman was the wife of a reservist. I might mention other similar cases—but this is enough to convince our readers that the work is difficult to handle.

But the pleasant features are blessings. One little tired under-fed woman with her twelve months babe appealed to me most pathetically. Her husband

had deserted her. Every night I could see her wistful face and my heart ached for her. One day when her last cent was gone, she dropped into the chair mechanically—all hope lost. That very morning one of our Home Economics women engaged her and she went to her home in the country where she and her little one are happy and comfortable and well nourished. Occasionally girls register from the country. (Please do not come to the city this year, girls). I registered one yesterday and urged her to go back to the country.

Then there are the girls. Some are anxious to go to the country. Many are afraid of work. They do not know or realize that the very best homes and opportunities are in the country. We spend hours trying to persuade them that our rural homes are full of comfort and helpfulness. But there are always girls and women who are chronic whiners and spineless. They are the real home-wreckers. One woman with a pathetic tale of desertion begged for a home. I called up for a reference from the home where she had been staying and learned that she had a furious temper and was not honest. Some husbands are justified in their search for more peaceful quarters.

Having spent my girlhood on a farm, I have no patience with girls who will not go to the country. I have urged girls to go during the past few weeks and have actually talked with many who would rather starve or go bad than go to the country. This situation makes me feel that the present crisis is a good thing for girls. It will make them go into homes. It will make it necessary for them to learn to cook. Most of these unemployed girls cannot cook and furthermore have no desire to learn. Too many girls are in offices and stores. Too many young girls are out of home work.

This week I received a letter from a girl asking me to recommend to her a place where she could take a course in domestic science. She said she was engaged to be married and felt after reading my department that she must know how to cook. I recommended to her the course at the Manitoba Agricultural College. What a splendid preparation for a girl to make before her marriage! I should like to congratulate that young man.

Girls are girls—and women are women

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The illustration shown here is a notable example. This coat is made of Northern Muskrat and is lined with Skinner's Satin, guaranteed for two seasons' wear. It is cut on stylish lines with loose back and front and rounded bottom. The new butterfly sleeve with 4-inch cuffs gives the shoulder a very smooth and pleasing appearance. The coat is 46 inches long and is supplied with either notch or shawl collar. The skins used in the coat and muff are genuine natural musk rat, neither blended nor dyed. By blending and dyeing, unprincipled manufacturers can make handsome-looking garments from inferior skins, but in this coat no deception whatever is practised.

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—and there is work for all of us. Just now it appears to be the task of educating the inefficient to a degree of efficiency.

Let me urge the women of the West to be patient with the women who are sending the unemployed from the Bureau. They are doing their best and Mrs. Beattie is nobly working to help every one at the Bureau and the women of the West. P.R.H.

SWAN LAKE H. E. S.

The programme for the August H. E. S. on Saturday, 29th, was opened by the President who made a few quiet, sympathetic references to the terrible war

which is devastating Europe and, in reading a forceful appeal from the Canadian Patriotic Fund, pointed out that these appeals are in no wise to be counted as a charity; rather they were the special privilege of "they also serve who only stand and wait." Not all of us can shoulder arms in defense of the Empire, but all of us can shoulder responsibility by giving of our utmost to help to maintain the wives and children of those who are deprived of their bread-winner, and later on to care for the widows and orphans of the brave men who fall fighting for peace, honor and Empire.

The President also referred to the very generous response which had been made by the ladies of Swan Lake and district to the appeal for funds for the hospital ship and thanked Meadames Gardner and Hartwell for having so successfully canvassed, and Mr. W. F. Hartwell for having taken the two ladies round in his car. In connection with the C.P.F. appeal the Cor. Sec. read a card from Mrs. Speechly of the Pilot Mound H.E.S. asking what steps the Swan Lake Society proposed to take and after discussion the C. S. was directed to write to the Hon. Sec. of the Fund to ask for the best mode of procedure, etc. and as soon as the information has been received, a committee will be formed and subscription lists opened. Other communications were also read, one of which will be found printed at the end of this report and others from the M. A. C. which have received replies.

Mrs. Dodd read an original paper on "Homemakers vs. Housekeepers," which was exceptionally interesting and which easily proved the writers contention that the best housekeepers are often far from being the best homemakers. Very few are yet educated up to a proper appreciation of perfection, and the house where everything is in its place, every thing spick and span, and where there is no break in the prim orderliness of

the rooms, and where comfort is sacrificed to appearance, is not the home which appeals to the majority of men and women, and is apt to drive the young people away instead of being their dearest refuge. Mrs. Dodd also entered a plea for a simpler hospitality and less conventionality in the entertainment of friends and visitors. True hospitality lies in offering the best you have at your immediate disposal, and not in allowing your guests to see that their arrival has caused extra trouble and expense.

Miss Gordon, who substituted for Mrs. McPherson, read an article by Mrs. McClung entitled "The New Citizenship" which was written in that author's usual vein and which contended that the agitation and discontent shown by the majority of women in these days, had really an upward and onward tendency, because active discontent against existing conditions leads, sooner or later, to amelioration of those conditions.

Miss Campbell, who substituted for Mrs. Dunfield, had also prepared an original paper which was a charming appreciation of the author and poet, Robert Louis Stevenson. Miss Campbell acknowledged the influence and help she had derived from childhood from this writer's books; in spite of his almost lifelong invalidism, Stevenson was a persistent optimist and drew the patient strength which enabled him to accomplish such great work from a close communion with nature and nature's God. Miss Campbell summed up her impressions by showing how important good books are in the life of everyone; a good book is almost as important as a good friend and our reading should be as carefully chosen as our friendships; such men as Robert L. Stevenson must be considered "God given men," because it is by their influence and through their writings that the great lessons of human life are learned.

Miss Gamble who was also on the

August programme, was absent Roll call. The singing of the National Anthem and afternoon tea brought a very interesting meeting to a close.

MIAMI

The Miami Home Economics Society met in the vestry of the Presbyterian Church on Friday, Sept. 18. Considering the very busy season on the farms the attendance was very encouraging, about thirty ladies being present. After singing the "Maple Leaf Forever" the ladies proceeded to business. A committee of ten ladies was appointed to secure homes for the unemployed young girls of Winnipeg. After some discussion it was decided to give a concert on the evening of Oct. 12th for the benefit of the fund for the relief of the families of our men who have gone to the war. For a short time business gave place to pleasure whilst the Misses Campbell sang a song. This was a treat which all appreciated. Fourteen new members were then enrolled, bringing the membership up to 106. All seemed pleased to know we had passed the century mark. The society having decided to start a rest room in October, if a suitable room could be secured, an appeal was made for donations. This met with a generous response and those who have not yet experienced the joy of giving to this good cause will find the officers ready, nay willing, to accept many things which are required to make our room a real haven of rest. A most enjoyable meeting was brought to a close by singing the National Anthem.

MINNEDOSA

The Home Economic Society met in Rest Room, Sept. 24. After calling the meeting to order the President read a letter from Mrs. Salisbury, asking the friendly guidance of the H. E. S. for unemployed girls of the city who might be sent to country places. A committee was formed to enquire into the matter

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of placing girls in this district, the kind of work they would be required to do, the amount of recompense, etc. The committee is as follows: Mrs. Cannan, Mrs. Woodcock, Mrs. Bedome and Mrs. Cooper. The President then spoke a few minutes on how to carry on the work of the Red Cross Society and five dollars was donated to the Soldiers' Aid from the H. E. S.

Mrs. Cooper read a paper on "Children and School," taking up the question of clothes, food, homework, recreation, outside studies. The clothes of school girls should be above all things simple, as pretty and dainty as possible but nothing that could come under the head of finery although a uniform is not desirable. Food must be easily digested, and appetizing; time must be given to eat properly and attention given to manners. Recreation must be for mind and bodies. Country walks were recommended for town children, not the idle sauntering on the street so commonly indulged in. The question of homework provoked a lively discussion. While some were of the opinion that time spent on homework might otherwise be frittered away in some worse than useless manner. The general opinion was that homework, for children under high school age was not necessary at all and was in many cases a confession of incompetence on the part of teacher as the child can do all the work that is necessary or advisable in school hours.

Arrangements were made to hold a sale of cookery and farm produce on Saturday, Oct. 2nd. The proceeds to aid the Rest Room. Singing the National Anthem brought the meeting to a close.
 Anne G. Lamont,
 Sec. H.E.S., Minnedosa

MANITOU
 A Flannellette Shower

Manitou, Oct. 2, 1914.
 Almost four years ago, a flannellette shower was held at the home of Mrs. Dales by the ladies of Manitou, in aid of the charitable work carried on in Winnipeg. Nearly three webs of flannellette were purchased and cut into garments for ages ranging from infants to fourteen years. An afternoon was set apart to do the sewing and, as it was well advertised, nearly every lady from town and many from the country turned out. The result was that nearly one hundred garments were completed.

It being a success, it was decided to make it an annual affair, so a committee, consisting of a lady from each church, was appointed to act for the next year. Those forming our first committee were: Mrs. Rowe, Anglican; Mrs. Dales, Catholic; Mrs. E. Moore, Methodist; Mrs. Varley, Baptist, and Mrs. McCharles, Presbyterian.

After paying for the material, the sum of \$14.50, which remained, was divided between the "Margaret Scott Home" and the "Children's Aid." Each lady helping to sew is expected to contribute twenty-five cents towards the cost of material. A lunch is served by a few ladies at each gathering. Since 1912 we have sent about three hundred garments to the Children's Aid and have received grateful acknowledgment from their secretary, Mr. Weston.

I wish those who read these lines could have had a peep into the Orange Hall yesterday and seen about fifty ladies, busy and happy, working hard to make garments for the poor, unfortunate children who are deprived of a mother.
 F. A. McCharles.

Report from Dufferin Home Economics Society

The regular monthly meeting of Dufferin Home Economics Society was held July 22nd in the park. Mrs. Lorne Fournier, of Minneapolis, addressed the meeting, taking for her subject "The Woman Movement." She spoke of the different work that was being carried on by women all over the world, and spoke particularly of the work being done in her own city. She thought some of this work could be taken up by our society.

Mrs. Fournier was given a hearty vote of thanks for her excellent address which was both instructive and entertaining. Ice cream and cake was served and a social chat enjoyed by all. Everyone went home thinking of the pleasant and profitable afternoon they had spent.
 The Home Economics Society held a

lawn social at the home of Mr. and Mrs. Couits on August 11th. The programme consisted of several musical selections given by a male quartette and a duet sung by Miss Margaret Couits and Master Kline Cochran, and a reading given by Mrs. Evans. The proceeds were given to the Rest Room Fund.
 H. C. F.

SWAN RIVER
 Rest Room Opening

I must tell you of the opening of our new "rest room" on Sept. 29th, at Swan River. For some time the H. E. S. have contemplated this step and the rooms now utilized having become vacant, it was decided that the present was the time to make the contemplated step an accomplished fact. All the actual work of getting the rooms ready for occupation was undertaken by a committee, to whom the greatest credit is due. The rooms are very comfortably furnished and I believe all the articles of furniture have been presented.

There is an entrance hall, with a table and settee, which opens into the main room and also into a little side apartment which is to be used as a library. Books are lent at a charge of 5 cents per book for a limited time. I believe all the books have been given. There are also magazines. A nice heating stove was presented by a local doctor and the pipes by one of the hardware store proprietors.

On the opening day we found the rooms very attractive, the main room used for the reception being festooned in the colors of the Empire, red, white and blue. The walls are also adorned with pictures of our two late sovereigns—Queen Victoria and King Edward.

A short opening speech was made at 3 p.m. by Mr. Geo. Paull, when the rooms were declared open by Mr. Weir, editor of the "Star." Then tea was served by the hostesses—all members of the executive—till 6 o'clock and again till 10 o'clock at night.

A great many were sufficiently interested to attend the reception, which was in every way delightful. Delicious cake and candies were served, as well as tea and sandwiches.

Conversation was bright and animated. Among the guests was an English lady who has just joined her husband here. He is principal of the school. She told of her voyage, undertaken under difficulties, owing to the war situation.

Our president, Mrs. Matchenbaker, is working hard, with a good band of helpers, to make this Society a success.

Many possibilities, at present dreams, may consolidate into realities with the opening of this rest room. There is to be a "pork and bean" social on Thursday. Of course we shall have to get down to business in earnest for there will be rent and expenses to pay but there is no doubt that as a social centre and an agency for uplifting and interesting others, this new centre will hold limitless opportunity. With all my heart I wish for its success.
 Gertrude Richardson.

The following poem, which we are pleased to publish, was written by one of our Home Economics members, Gertrude Richardson, of Swan River.

The Minor Note

The air is filled with swell of wild war music
 (And yet I hear the minor note of pain.)
 There is a sound of martial tread of armies—
 (There are some footsteps none will hear again.)

Father, Whose love is tenderest in sorrow,
 We kneel in prayer to Thee for all we love,
 Bless Thou the mourner by the blood-stained banner,
 Bless Thou the weepers, may they look above.

Bless the dear children, filled with childish wonder;
 Help us to keep them far from all the pain,
 Unsaddened by the anguish and the horror—
 (Hear'st Thou the minor note of earth's refrain?)
 Help us, our Father, may our faith and courage
 Be all untouched by anguish, dread and woe;
 Teach us to hear the music of the angels,



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Singing as once they sang so long ago—
 Sang when the Saviour lay a little baby
 In the fair arms that sheltered Him
 awhile,
 (Softly caressed and tenderly enfolded,
 Blessed and safe beneath His mother's
 smile.)
 And once again the shining bands shall
 scatter

The music of His peace around the earth
 And all fair sweetness and all holy
 gladness
 Shall come again to being and to birth
 "Peace and goodwill and glory in the
 highest"
 Soon may God's music ring anew of
 earth.—Amen.
 —Gertrude Richardson.

OAK LAKE

The regular monthly meeting was held in the rest room on Saturday, Aug. 15th. A letter was read from Mrs. Beattie re the establishing of a nursing home here in connection with the Victorian Order of Nurses. Mrs. Beattie stated that a Miss McKenzie was travelling through to the coast in the interests of this object. The members present were desirous of meeting Miss McKenzie and the secretary was asked to write and try and arrange with her to stop off on the third Saturday in September.

The society served meals in the rest room on Fair day and also refreshments on the grounds at the agricultural buildings. About \$126.00 was realized.

Miss Althea Orr gave a splendid reading on "The Secret of Growing Old." This was followed by an instrumental on the organ, very sweetly rendered by Mrs. Higginbottom. Mrs. Cormie read a most instructive paper on "The Causes of the Present War." The meeting was closed with the singing of "God Save the King."

The monthly meeting of September was held on Saturday, 19th. A long discussion took place regarding a subscription from the society to the General Patriotic Fund but as many of the ladies had already formed themselves into a committee in the interests of this fund, it was thought best to concentrate our energies in doing Red Cross work, which is affiliated with the St. John's Ambulance Society. Friday, Sept. 25th, was the date set for the members to meet in the rest room and sew for the object.

The president introduced the problem of the unemployed girls in the City of Winnipeg. One or two ladies each offered to take one of these girls into their homes.

Mrs. Osterhout gave a very good paper on "The Problem of the Servant Girl." Mrs. Cameron and Mrs. Newlove both added much to the afternoon's enjoyment by singing delightful solos.

New books have recently been added to our library and the circulation increases with each week, which is very gratifying.

Laura McLeish.

HANLEY HOMEMAKERS' CLUB

Waste and Economy of Food Material and Fuel

By Mrs. W. J. Henry

I am expected to make a few remarks to you ladies to-day on a subject I am sure is well known to all present, namely: "The Waste and Economy of Food Material and Fuel."

Now, the food problem is perhaps the most difficult of all the physical problems that present themselves in the household, partly because it is so vital to the welfare of the family, and partly because it is so inclusive. The food question once meant the providing of some thing palatable and presumably wholesome at the cost within one's means. To-day it implies a knowledge not only of the cost and nutritive value of food materials, their compositions and digestibility, but of the balanced ration, the proportion of different food principles necessary for perfect nourishment, and of the way in which this proportion should be varied to suit the needs of the child, or of the aged. Hence an understanding of the principles involved in the preparation of food is demanded, as well as knowledge of food adulterations that will insure pure food material. So you will see that one could go on and exaggerate upon this important question, for nearly all will acknowledge cooking not only to be an art, but a science as well. To know how to cook economically is an art. Making money is an art.

Now, is there not more money made and lost in the kitchen than almost anywhere else. Does not many a hard working man have his substance wasted in the kitchen? Does not some shiftless man have his substance saved in the kitchen? A careless cook can waste as much as a man can earn, which might as well be saved. It is not what we earn as much as what we save that makes us well off and to be independent of want is not to want what we do not need. Economy is an institute of nature and enforced by Bible precept "Gather up the fragments that nothing be lost." Saving is a more difficult art than earning. Some people put dimes into puddings where others only put cents. Almost any woman can cook well if she has plenty

with which to do it but the real science of economy is to be able to cook a good meal with but little to make it. But let us all agree with Mrs. Ellen H. Richards, when she says that "the prosperity of a nation depends upon the health and morals of its citizens and the health and morals of a people depend mainly upon the food they eat and the homes they live in."

To go back to the opening phrase, one could ask the question What is economy? and it's answered simply and easily. True economy consists of buying small quantities of the best material and using them carefully. When one wants a fine piece of roasted beef, the roast itself must be of fair size; small roasts are extravagant and not palatable. Large roasts lose less in cooking than small ones, but the leftovers must be utilized or the dish is most extravagant. As a rule, left-overs are extravagant; they show thoughtless buying, but to know how to utilize them is the stronghold of every housewife. Many left-over vegetables are better on second cooking, especially the starchy ones. Not so, however, with the meats.

Dishes made from eggs and milk should not be kept for a second day, especially during the hot months. Fish, even if perfectly fresh when cooked, is by far more dangerous than stale meat. Beef and mutton keep longer than either fish or white meats. Cooked meats should be cooled quickly. It is best not to cover materials while cooking. Spiced meats will keep longer in warm weather than plain boiled or roasted meats.

Left-over vegetables, such as a few peas, a few olives, a cold potato, a slice or two of beets, may quickly be developed into a Rus'-an salad.

Meat croquettes prove a great relish at any time and you will find in almost every receipt book ideas as to how to use left-over meats.

Left-over potatoes can be used almost in any way, such as potato puff, potato croquettes and potatoes au gratin.

So you will find that it is a good idea to save everything, even if it is only a tablespoonful of stewed tomatoes or one of peas. It may be added to to-morrow's omelette and change a plain omelette into a dainty one.

In most homes economy must be practised in every phase of the homemaking, but no housewife need be without a generous supply of relishes and numerous confections with which to grace her table during the winter months, and autumn is the time in which these things are made, such as beet pickles, spiced currants, cucumber pickles, conserve, pear or sweet apple pickles, etc. Any of these can be readily obtained in any cook book.

The wife of the working man has perhaps the greatest problem to face these days. In addition to raising children and managing the home, she must depend on her husband's earnings. Here is the rock on which many come to grief. The science of buying is important but unfortunately a neglected one. The main principles of economy must be learned and if the wife of the working man will heed the voice of a worker of national reputation, she will find out some things of which she has never dreamed, and domestic science is the study for the working man's wife.

Now just a word on the fuel question, which stands greatly in many persons' way.

To economize on coal, keep a sprinkling can filled with water in the coal bin, and wet the coal before putting it into the furnace. The dampness makes a hotter fire.

It's just the same thing, three sticks of wood boil the kettle just as quickly as seven would. Remember that water cannot be made more than boiling hot. So you find that all through life that economy is no longer a neglected virtue, but it is the fad of the moment.

The same principle holds good in baking also. Make the oven the right heat and give it time to bake through is the true plan. If you attempt to hurry you only burn instead of cooking it done. If you attempt the boiling to hurry, the wood only is wasted. But in attempting the baking to hurry, the food as well isn't fit to be tasted.

Mrs. W. J. Henry.

Of Course He Swooned.

While the judge was giving his charge to the jury in the burglary case, one of

Manitoba Agricultural College

Special Course in Gas Engineering November 24th to December 18th, 1914

The object of this Course is to enable farmers to become capable operators of gas engines. Practical instruction will be given in various branches of repair work, valve setting, belt lacing, and babbitting, as well as in the running of engines.

As only a limited number can be accommodated, those desiring to take the Course should apply in good time, and have applications accepted before coming in.

Write for descriptive circular:
THE PRESIDENT, Manitoba Agricultural College, Winnipeg

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the jurymen fainted. His lordship, so the British paper reporting the incident says, had just impressively said: "Gentlemen of the jury, in arriving at the verdict you must take the testimony of the witnesses for the defence into consideration and give them full weight." At the words "and give them full weight," the jurymen swooned away. He was a coal merchant.

Even a Soldier's Duty Has Limits. Officer—What's the matter with that soup you're turning up your nose at? Private—"It's full of sand and grit, sir. Officer—Now look here, my man, did you come to camp to grumble or to serve your country? Private—Well, I did come to serve my country, sir; but not to eat it.

Coates Homemaker's Club.

Have been rather remiss in sending you our reports.
Our June meeting was held at the home of Mrs. D. Heimbecker.

We had our delegates report from Mrs. Landblom and put a paper on "Luncheon for Picnics" by Mrs. Kohles. Roll call—Our Favorite Flowers.

The club accepted two invitations for July: one to visit the Bradwell Club, and one to visit the Dundurn Club.

The July meeting was held at the home of Mrs. D. Nobles.

Mrs. Landblom read a paper on "Fruit Preserving." Roll call—Our Favorite Authors. After the meeting the club members took pleasure exploring some of the beauties of Beaver Creek.

August meeting was held at the home of Mrs. W. Hornsden.

Harvest had begun, so our attendance was small. We had six new visitors, and took in one new member. Roll call—Familiar Proverbs.

After the meeting we had some good music.

Number of members now on books 33.

Clubwoman's Creed.

At the recent convention of the General Federation of Women's Clubs in Chicago the following creed was read:

"Keep us, O God, from pettiness; let us be large in thought, in word, in deed.
"Let us be done with fault finding and love of self-seeking.

"May we put away pretense and meet each other face to face—without self-pity and without prejudice.

"May we never be hasty in judging and always generous.

"Let us take time for all things; make us grow calm, serene, gentle.

"Teach us to put into action our better impulses, straightforward and unafraid.

"Grant that we may realize it is the little things that create differences; that in the big things of life we are one.

"And may we strive and touch and to know the great common woman's heart of us all, and, O Lord, let us not forget to be kind!"

The Ageu.

When we address our aged friends We should not call them old;

They know full well the weight of years And care not to be told.

So dear old grandma do not say, But just my grandma dear;

For these sweet words to weary hearts Can breathe of naught but cheer.

A. L. P.

A Christmas Idea.

If you cannot afford to give presents this year determine to create an atmosphere of peace and love about the home for a whole year—a little more consideration for father, tender affection for mother, kindness towards brothers and sisters, grandmother and grandfather—let parents be more patient with the sons and daughters. This is true Xmas giving.

HOUSEHOLD HINTS

Soak mildew in a weak solution of chloride of lime for several hours. Rinse in cold water.

Each child should possess a laundry bag and put its soiled clothes in it as soon as they are taken off.

To remove fruit stains, stretch the fabric over the mouth of a basin and pour boiling water on the stain.

Rub sewing machine oil stains with lard, let stand for several hours and wash with cold water and soap.

Celery chopped very fine and served with French dressing on hearts of lettuce is a delicious dinner salad.

To remove coffee stains, stretch the napkin or tablecloth over a basin and pour hot water through the cloth.

Soak iron rust stains thoroughly with lemon juice, sprinkle with salt and bleach for several hours in the sun.

Stained floor boards can be cleaned by scrubbing with chloride of lime, using but a tablespoonful to a pail of water.

If you drop grease on the kitchen floor, scatter soda on it and then pour boiling water. The spots will come out easily.

A little sugar added to oatmeal when it is cooking, instead of putting it all on at the table, improves the flavor greatly.

Put a little dry starch in the clear warm water with which you wash windows. When dry rub off, then polish with a cloth.

A delightful flavor is given tomatoes if when cutting a tomato the knife is frequently passed over the surface of a freshly cut onion.

When ironing circular centerpieces or tablecloths see that the iron moves with the straight grain of the cloth, for it is in this way only that the edges will be perfectly flat.

When next making lemon jelly, beat in the whites of two or three eggs as the jelly begins to set; it lightens the dessert. Serve with a boiled custard or with whipped cream.

Small Molasses Cakes—Take five tablespoonfuls of flour, three tablespoonfuls of brown sugar, one tablespoonful of ground ginger, two tablespoonfuls of black molasses, one good teaspoonful of baking powder. Mix the flour, sugar, ginger and baking powder in a dry state; then add the molasses with a little milk, stir well together and bake in a moderate oven in gem pans.

Big Ben

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It Beats All, How He Gets the Farm Hands up

Chores ain't slow when 's around —his deep-toned, cheery voice wakes meaf'ol like getting up and being about their work.

That's how he takes all that worry of getting things started, of YOUR mind. He's working 24 hours a day on hundreds of thousands of farms—asking only \$3.00 to start and a drop of oil a year as his board.

Put him in the parlor to tell the time by day, or in the dining room, or kitchen—best clock in the world to time cooking with.

Big Ben stands 7 inches tall, triple-nickel plated, handsome, smart-looking; and is just as smart as he looks. He wears an inner case of good implement steel to keep him healthy and strong.

He'll ring you up two ways—one way is for five minutes straight without a let-up and the other is ten short rings, every other half minute for ten minutes. Shut him off at any point during either call if you choose.

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The Ransom of Red Chief
 By O. HENRY
 A COMPLETE STORY

Why are nau-hty boys always so much more attractive—to read about 'at any rate—'an little plaster saints' Partly, no doubt, because they are so much more human. This tale tells you about 'an entirely deli h'ful—and, therefore, hopelessly nau, htly,—small boy. You will like it.

It looked like a good thing; but wait till I tell you. We were down South, in Alabama—Bill Driscoll and myself—when this kidnapping idea struck us. It was, as Bill afterwards expressed it, "during a moment of temporary mental apparition;" but we didn't find that out till later.

There was a town down there, as flat as a pancake, and called Summit, of course.

Bill and me had a joint capital of about six hundred dollars, and we needed just two thousand dollars more to pull off a fraudulent town-lot scheme in Western Illinois with.

We selected for our victim the only child of a prominent citizen named Ebenezer Dorset. The kid was a boy of eight,

with bas-relief freckles. Bill and me figured that Ebenezer would melt down for a ransom of two thousand dollars to a cent. But wait till I tell you.

About two miles from Summit was a little mountain, covered with a dense cedar brake. On the rear elevation of this mountain was a cave. There we stored provisions.

One evening, after sundown, we drove in a buggy past old Dorset's house. The kid was in the street, throwing rocks at a kitten on the opposite fence.

"Hey, little boy," says Bill, "would you like to have a bag of candy and a nice ride?"

The boy catches Bill neatly in the eye with a piece of brick.

"That will cost the old man an extra

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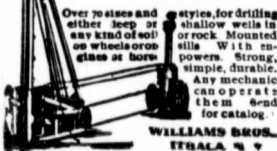
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five hundred dollars," says Bill, climbing over the wheel.

That boy put up a fight like a welter-weight cinnamon bear; but, at last, we got him down in the bottom of the buggy and drove away. We took him up to the cave, and I hitched the horse in the cedar brake. After dark I drove the buggy to the little village, three miles away, where we had hired it, and walked back to the mountain.

Bill was pasting court-plaster over the scratches and bruises on his features. There was a fire burning behind the big rock at the entrance of the cave, and the boy was watching a pot of boiling coffee, with two buzzard tail-feathers stuck in his red hair. He points a stick at me when I come up, and says:

"Ha! cursed pale face, do you dare to enter the camp of Red Chief, the terror of the plains?"

"He's all right now," says Bill, rolling up his trousers and examining some bruises on his shins. "We're playing Indian. We're making Buffalo Bill's show look like magic-lantern views of Palestine in the Town Hall. I'm Old Hank, the Trapper, Red Chief's captive, and I'm to be scalped at day-break. By Geronimo! that kid can kick hard."

Yes, sir, that kid seemed to be having out the time of his life. The fun of camping in a cave had made him forget that he was a captive himself. He immediately christened me Snake-eye, the Spy, and announced that, when his braves returned from the warpath, I was to be burnt at the stake at the rising of the sun.

Then we had supper, and he filled his mouth full of bacon and bread and gravy, and began to talk. He made a during-dinner speech something like this:

"I like this fine. I never camped out before; but I had a pet possum once, and I was nine last birthday. I hate to go to school. Are there any real Indians in these woods? I want some more gravy. Does the trees moving make the wind blow? We had five puppies. What makes your nose so red, Hank? My father has lots of money. Are the stars hot? I whipped El Walker twice, Saturday. I don't like girls. Why are oranges round? Have you got any beds to sleep on in this cave? Amos Murray has got six toes. How many does it take to make twelve?"

Every few minutes he would remember that he was a redskin, and pick up his stick rifle and tiptoe to the mouth of the cave to look out for the scents of the hated pale-face. Now and then he would let out a war-whoop that made Old Hank, the Trapper, shiver. That boy had Bill terrorised for the start.

"Red Chief," says I to the kid, "would you like to go home?"

"Aw, what for?" says he. "I don't have any fun at home. I hate to go to school. I like to camp out. You won't take me back home again, Snake-eye, will you?"

"Not right away," says I. "We'll stay here in the cave awhile."

"All right!" says he. "That'll be fine. I never had such fun in all my life."

We went to bed about eleven o'clock. We spread down some wide blankets and quilts and put Red Chief between us. We weren't afraid he'd run away. He kept us awake for three hours, jumping up and reaching for his rifle and screeching: "Hist! pard," in mine and Bill's ears, as the fancied crackle of a twig or the rustle of a leaf revealed to his young imagination the stealthy approach of the outlaw band. At last, I fell into a troubled sleep, and dreamt that I had been kidnapped and chained to a tree by a ferocious pirate with red hair.

Just at daybreak, I was awakened by a series of awful screams from Bill. They weren't yells, such as you'd expect from a manly set of vocal organs—they were simply indecent, terrifying, humiliating screams, such as women emit when they see ghosts or caterpillars. It's an awful thing to hear a strong, desperate fat man scream incontinently in a cave at daybreak.

I jumped up to see what the matter was. Red Chief was sitting on Bill's chest, with one hand twined in Bill's hair. In the other he had the sharp case-knife we used for slicing the bacon, and he was industriously and redlistically trying to take Bill's scalp, according



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to the sentence that had been pronounced upon him the evening before.

I got the knife away from the kid and made him lie down again. But, from that moment, Bill's spirit was broken. He laid down on his side of the bed, but he never closed an eye again in sleep as long as that boy was with us. I dozed off for a while, but towards dawn I remembered that Red Chief had said I was to be burnt at the stake at the rising of the sun. I wasn't nervous or afraid; but I sat up and lit my pipe and leant against a rock.

"What are you getting up so soon for, Sam?" asked Bill.

"Me?" says I. "Oh, I've got a kind of pain in my shoulder. I thought sitting up would rest it."

"You're a liar!" says Bill. "You're afraid. You was to be burnt at sunrise, and you was afraid he'd do it. And he would, too, if he could find a match. Ain't it awful, Sam? Do you think anybody will pay out money to get a little imp like that back home?"

"Sure," said I. "A rowdy kid like this is just the kind that parents dote on. Now, you and the Chief get up and cook breakfast, while I go up on the top of this mountain and reconnoitre."

I went up on the peak of the little mountain and ran my eye over the contiguous vicinity. Over toward Summit I expected to see the sturdy yeomanry of the village armed with scythes and pitchforks, heading the countryside for the dastardly kidnappers. But what I saw was a peaceful landscape dotted with one man ploughing with a dun mule.

"Perhaps," I says to myself, "it has not yet been discovered that the wolves have borne away the tender lamkin from the fold. Heaven help the wolves!" says I, and I went down the mountain to breakfast.

When I got to the cave I found Bill backed up against the side of it, breathing hard, and the boy threatening to smash him with a rock as big as a coconut.

"He put a red-hot boiled potato down my back," explained Bill, "and then mashed it with his foot, and I boxed his ears. Have you got a gun about you, Sam?"

I took away the rock from the boy, and kind of patched up the argument. "I'll fix you," says the kid to Bill. "No man ever yet struck the Red Chief, but what he got paid for it. You'd better beware!"

After breakfast the kid takes a piece of leather with strings wrapped round it out of his pocket, and goes outside the cave unwinding it.

"What's he up to now?" says Bill anxiously. "You don't think he'll run away, do you, Sam?"

"No fear of it," says I. "He don't seem to be much of a home-bird. But we've got to fix up some plan about the ransom. There don't seem to be much excitement in Summit on account of his disappearance; but, maybe, they haven't realised yet that he's gone. His folks may think he's spending the night with Aunt Jane or one of the neighbors. Anyhow, he'll be missed to-day. To-night we must get a message to his father, demanding the two thousand dollars for his return."

Just then we heard a kind of war-whoop, such as David might have emitted when he knocked out the champion Goliath.

It was a sling that Red Chief had pulled out of his pocket, and he was whirling it round his head.

I dodged, and heard a heavy thud and a kind of sigh from Bill, like a horse gives out when you take his saddle off. A rock, the size of an egg, had caught Bill just behind his left ear. He loosened himself all over and fell in the fire, across the frying pan of hot water for washing the dishes.

I went out and caught that boy and shook him until his freckles rattled.

"If you don't behave," says I, "I'll take you straight home. Now, are you going to be good, or not?"

"I was only funning," says he sullenly. "I didn't mean to hurt Old Hank. But what did he hit me for? I'll behave, Snake-eye, if you won't send me home, and if you'll let me play the Black Scout to-day."

"I don't know the game," says I. "That's for you and Mr. Bill to decide. He's your playmate for the day. I'm going away for a while on business. Now, you come in and make friends with

Success Business College

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Insure success by a business training. Get it in the best Business College—the College that has made the greatest success of its business. This is the Success Business College, with schools at Winnipeg, Regina, Moose Jaw, Weyburn, Calgary, Lethbridge and Vancouver. We use 309 typewriters. Send to the nearest school for free prospectus, beautifully illustrated. Don't put it off. Act now!

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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 \$5.00 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 reduction 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.—41858.

him and say you are sorry for hurting him, or home you go, at once."

I made him and Bill shake hands, and then I took Bill aside and told him I was going to Poplar Cove, a little village three miles from the cave, to find out what I could about how the kidnaping had been regarded in Summit. Also, I thought it best to send a peremptory letter to old man Dorset that day, demanding the ransom and dictating how it should be paid.

Bill and I got paper and pencil and worked on the letter while Red Chief, with a blanket wrapped round him, strutted up and down guarding the mouth of the cave. Bill begged me tearfully to make the ransom fifteen hundred dollars instead of two thousand. "I ain't attempting," says he, "to defy the celebrated moral aspect of parental affection, but we're dealing with human beings, and it ain't human for anybody to give up two thousand dollars for that forty-pound chunk of freckled wild eat. I'm willing to take a chance at fifteen hundred dollars. You can charge the difference up to me."

So, to relieve Bill, I acceded, and we collaborated a letter that ran this way: Ebenezer Dorset, Esq.—

We have your boy concealed in a place far from Summit. It is useless for you or the most skillful detectives to attempt to find him. Absolutely, the only terms on which you can have him restored to you are these:

We demand fifteen hundred dollars in notes for his return, the money to be left at midnight to-night at the same spot and in the same box as your reply as hereinafter described. If you agree to these terms, send your answer in writing by a solitary messenger to-night at half past eight o'clock. After crossing the Owl Creek, on the road to Poplar Cove, there are three large trees about a hundred yards apart, close to the fence of the wheat field on the right hand side. At the bottom of the fence post, opposite the third tree, will be found a small pasteboard box.

The messenger will place the answer in this box and return immediately to Summit.

If you attempt any treachery or fail to comply with our demand as stated, you will never see your boy again.

If you pay the money as demanded, he will be returned to you safe and well within three hours. Those terms are final, and if you do not accede to them no further communication will be attempted.

Two Desperate Men.

I addressed this letter to Dorset and put it in my pocket. As I was about to start, the kid comes up to me and says:

"Snake-eye, you said I could play the Black Scout while you was gone."

"Play it, of course," says I. "Mr. Bill will play with you. What kind of a game is it?"

"I'm the Black Scout," says Red Chief, "and I have to ride to the stockade to warn the settlers that the Indians are coming. I'm tired of playing Indian myself. I want to be the Black Scout."

"All right," says I. "It sounds harmless to me. I guess Mr. Bill will help you foil the savages."

"What am I to do?" asks Bill, looking at the kid suspiciously.

"You are the horse," says Black Scout. "Get down on your hands and knees. How can I ride to the stockade without a horse?"

"You'd better keep him interested," said I, "till we get the scheme going."

Bill gets down on his all fours, and a look comes in his eye like a rabbit's when you catch it in a trap.

"How far is it to the stockade, kid?" he asks in a husky manner of voice.

"Ninety miles," says the Black Scout. "And you'll have to hump yourself to get there on time. Whoa, now!"

The Black Scout jumps on Bill's back and digs his heels in his side.

"For Heaven's sake," says Bill, "hurry back, Sam, as soon as you can. I wish we hadn't made the ransom more than a thousand. Say, you quit kicking me or I'll wet up and wallow you."

I walked over to Poplar Cove and sat about in the post office and store, talking with the chawbacons that came in to trade. One whiskerando says that he hears Summit is all upset on account of Elder Ebenezer Dorset's boy having been lost or stolen. That was all I wanted to

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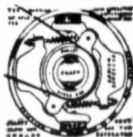
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know. I bought some smoking tobacco, referred casually to the price of postage...

When I got back to the cave Bill and the boy were not to be found. I explored the vicinity of the cave, and risked a yodel or two, but there was no response.

So I lighted my pipe and sat down on a mossy bank to await developments.

In about half-an-hour I heard the bushes rustle, and Bill wobbled out into the little glade in front of the cave.

"Sam," says Bill, "I suppose you'll think I'm a renegade, but I couldn't help it. I'm a grown person with masculine proclivities and habits of self-defence."

"What's the trouble, Billy?" I ask him.

"I was rode," says Bill, "the ninety miles to the stockade, not barring an inch. Then, when the settlers were rescued I was given oats. Sand ain't a palatable substitute. And then for an hour I had to try to explain to him why there was nothin' in holes, how a road can run both ways and what makes the grass green."

"But he's gone!" continues Bill—"gone home. I showed him the road to Summit and kicked him about eight feet nearer there at one kick. I'm sorry we lose the hansom; but it was either that or Bill Driscoll to the madhouse."

"Bill," says I, "there isn't any heart disease in your family, is there?"

"No," says Bill, "nothing chronic except accidents. Why?"

"Then you might turn round," says I, "and have a look behind you."

Bill turns and sees the boy, and loses his complexion and sits down plump on the ground and begins to pluck aimlessly at grass and little sticks.

Then I told him that my scheme was to put the whole job through immediately and that we would get the ransom and be off with it by midnight if Old Dorset fell in with our proposition.

I had a scheme for collecting that ransom, without danger of being caught by counter plots, that ought to commend itself to professional kidnapers.

Exactly on time, a half-grown boy rides up the road on a bicycle, locates the postbox at the foot of the fence-post, slips a folded piece of paper into it and pedals away again back towards Summit.

I waited an hour and then concluded the thing was square. I slid down the tree, got the note, slipped along the fence till I struck the woods, and was back at the cave in another half-an-hour.

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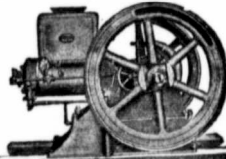
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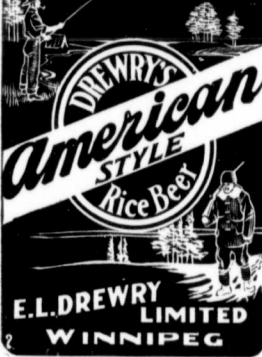
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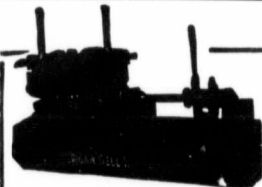
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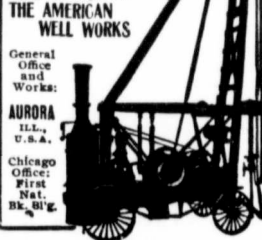


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FISH—Fresh frozen fish from Lake Manitoba Jack at 3c., Herring 3 1/2c., Pickeral at 5 1/2c., Suckers at 2c., Get your supply early. Dow Bros., Delta, Man.

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and substance of it was this:
TWO DESPERATE MEN.
Gentlemen,—
I received your letter to-day by post, in regard to the ransom you ask for the return of my son. I think you are a little high in your demands, and I hereby make you a counter-proposition which I am inclined to believe you will accept. You bring Johnny home and pay me two hundred and fifty dollars in cash, and I agree to take him off your hands. You had better come at night, for the neighbors believe he is lost, and I couldn't be responsible for what they would do to anybody they saw bringing him back. Very respectfully,
Ebenzer Dorset.

"Great Pirates of Penzance!" says I; "of all the impudent——"

But I glanced at Bill, and hesitated. He had the most appealing look in his eyes I ever saw on the face of a dumb or a talking brute.

"Sam," says he, "what's two hundred and fifty dollars after all? We've got the money. One more night of this kid will send me to a bed in Bedlam. Besides being a thorough gentleman, I think Mr. Dorset is a spendthrift for making us such a liberal offer. You ain't going to let the chance go, are you?"

"Tell you the truth, Bill," says I, "this little ewe lamb has somewhat got on my nerves, too. We'll take him home, pay the ransom, and get away."

We took him home that night. We got him to go by telling him that his father had bought a silver-mounted rifle and a pair of moccasins for him, and we were going to hunt bears the next day.

It was just twelve o'clock when we knocked at Ebenezer's front door. Just at the moment when I should have been abstracting the fifteen hundred dollars from the box under the tree, according to the original proposition, Bill was counting out two hundred and fifty dollars into Dorset's hand.

When the kid found we were going to leave him at home he started up a howl and fastened himself as tight as a leech to Bill's leg. His father peeled him away gradually, like a porous plaster.

"How long can you hold him?" asks Bill.

"I'm not as strong as I used to be," says old Dorset, "but I think I can promise you ten minutes."

"Enough," says Bill. "In ten minutes I shall cross the Central, Southern, and Middle Western States, and be legging it for the Canadian border."

And, dark as it was, and fat as Bill was, and good a runner as I am, he was a good mile and a half out of Summit before I could catch up with him.

What He Left.

Residing in a little village is a lawyer who is famous for drawing wills, in which branch of business he has long enjoyed a monopoly of the country for miles around.

A few months since a wealthy man died. There was much speculation as to the value of the property, and the town gossip set about to find out the facts. He hunted up the lawyer, and, after a few preliminary remarks about the deceased, he said rather bluntly: "I suppose you made Brown's will?" "Yes."

"Then you probably know how much he left. Would you mind telling me?" "Not at all," the lawyer answered, as he resumed his writing. "He left everything he had."

What Was the Use?

"Now, Tommy," reprimanded the mother, "don't let me catch you throwing any more stones."
"Well, what will I do when the other fellows throw 'em?" asked Tommy.
"Just come and tell me," his mother replied.
"Tell you!" he exclaimed in astonishment. "Why, you couldn't hit the broad side of a barn!"

Correct.

Teacher: "A train leaves Winnipeg travelling thirty miles an hour. It is followed, thirty minutes later, by a train travelling sixty miles an hour. At what point will the second train run into the first?"
Boy: "At the hind end of the rear car."

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The Marlin Hammerless repeating shotgun is a fine-appearing, beautifully-balanced gun, without any objectionable humps or bumps; no holes on top for gas to blow out through or water to get in; can't freeze up with rain, snow or sleet; its solid steel breech (not a shell of wood) permits a thoroughly symmetrical gun without sacrificing strength or safety; it is the safest breech-loading shotgun ever built. Six shots in 12 and 16 gauges; five in 20 gauge.

11. Hammerless with Solid Steel Breech (inside as well as out)—Solid Top—Side Ejection—Matted Barrel (which costs \$1.00 extra on other guns)—Press Button Cartridge Release—(to remove loaded cartridges quickly from magazine without working through action) Double Extractors—Take-Down Feature—Trigger and Hammer Safety. Handles rapidly; guaranteed in shooting ability; price standard Grade "A" 12-gauge gun, \$22.50; 16- or 20-gauge, \$24.00. Send 3 stamps postage for big catalog describing all Marlin repeating shotguns (hammer and hammerless), all Marlin repeating rifles, etc. Do it now!

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We have on hand at present a very full line of Rebuilt and Second-hand Engines and Separators, which we are offering at attractive prices. Write us fully what you are thinking of buying, when we shall be pleased to tell you what we have and quote prices. All our rebuilt goods are sold under same guarantee as new ones and of course are carefully repaired and look exactly like new. If you write us at once we are sure to have the size you almost want.

SAWYER-MASSEY COMPANY, LIMITED, Winnipeg, Man.

BARGAINS.

- 1 30 H.P. double unfermented Avery engine, with Alberta and Saskatchewan Boiler. This engine has been repaired and fixed up in first class shape.
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| 15 | Horse Case Simple Portable Engine 20540 |
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HALL'S RED RIVER EMPLOYMENT OFFICE, 188 Logan Ave., East. Successors to old established Red River Employment Office. Farm hands, engineers, steam and gasoline plowmen and all other farm help. Phone Main 7298.

WANT TO BUY FARM WELL LOCATED—Give description and price. Owners only. Address: McClure, Box 754, Chicago, Ill.

I HAVE good general store in small but good town. Old established business. Would like to exchange for farm in Western Canada. Andrew Peterson, Fortoria, Kansas.

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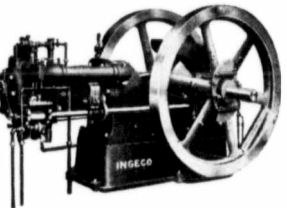
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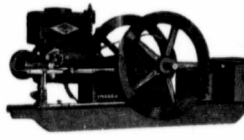
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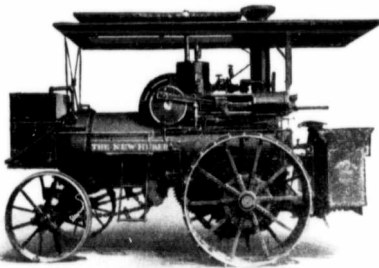


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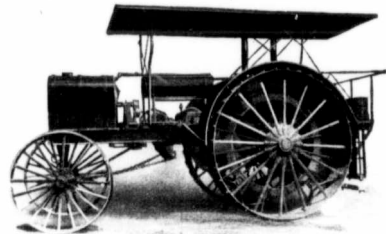
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20 HORSE POWER STEAM ENGINE



30-60 GAS TRACTOR
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Which means that the small farmer or the ten-thousand acre grain grower can have the identical and the ideal outfit to suit his soil and acreage.

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Twenty-Forty Plowing Tractor

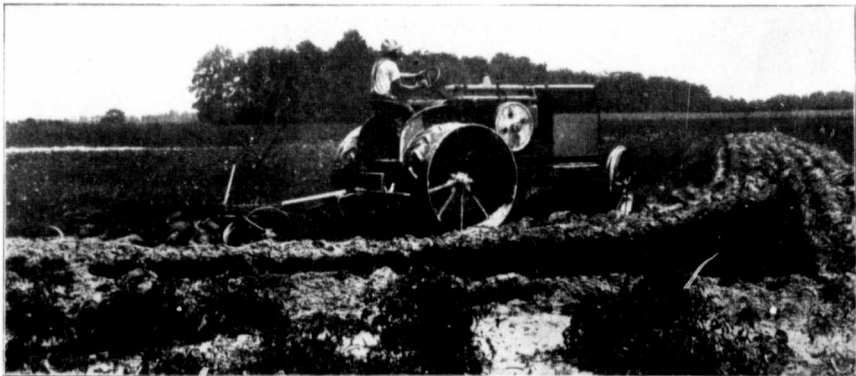
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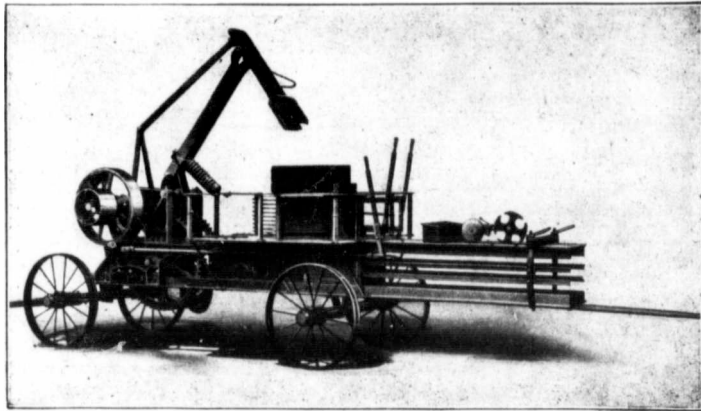
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