CANADA'S FARMWINNIPEG JANUARY, 1914 THESHERMAN FARMER MACHINERY MAGAZINE CANADA'S FARMJANUARY, 1914



A Hard Job Made Easy

AND A LOT OF TIME SAVED

The new Deere is equipped with the John Deere Quick-Detachable Shares—the handlest feature ever put on a plow.

Note in illustration the position of both—in plain view, easy to get at. Unacrewing this one nut is all there is to taking off the John Deere Quick-Detachable Share.

And they are quick-attachable too. They can be put on as easily as they can be taken off.

The John Deere Quick Detachable Share is an exclusive John Deere (eature.

Only One Nut to Remove to take off Share

and you don't have to lie down in the dirt, under the plow, to do that.

The exasperating, tedious task of unscrewing several nuts when in a cramped position is entirely done away with.

Bolt that holds share to moldboard is in plain view-

How it's Done

All that is necessary to remove share is to unscrew this one nut from eyebolt and give share a kick with foot.

And, remember, the share is just as easily put onsimply slip share in place and tighten up nut.

Either operation can be done in a few seconds.

These shares save three-fourths of the time usually required in taking off and putting on ordinary shares.

This is mighty important, because any time saved dur ing the plowing season is money saved to the farmer.



Here are some reasons why John Deere Quick-Detachable Shares are superior to the ordinary shares:

1st-They save 80 per cent of time in changing shares. 2nd-No tipping of plow or lying in the dirt.

3rd-Simplest and strongest share ever made

4th-No lost, bent or broken bolts or nuts. 5th-Only one nut to remove instead of four or five.

6th-Locks rigidly-equalized strain on all parts.

Why They are Stronger

An eyebolt attached to the share passes through a bracket and holds share in place—better than when bolted to the frog in the old style manner.

The frog extends well under the share, giving it a very solid support.

One extra heavy malleable brace furnishes a firm bearing for wing of share.

Lug on landside of share passes into a slot in the trog, holding it firmly. It answers the same purpose as two bolts in the landside.

Each share fits the frog and bottom perfectly. It is held tightly in place by the lug and well-distributed pressure exerted when nut on the eyebolt is drawn up.

With bolted shares this must be done as far as possible with a drift punch, which causes sudden shocks from the hammer blows and unequal strain on the share.

The re-sharpened John Deere Quick-Detachable Share that has been sprung can be brought to place with less effort than can the bolted share.

There are many other reasons for the superiority of these shares brought out by actual field experience—your John Deere dealer will be pleased to tell you about it.

Ask to see the Q-D Share. Your John Deere Dealer will show you

Here are some more Superior Points of the New Deere

The plows that can be depended upon to do good work—years of field use prove.

Do uniform good work in any soil—the final test of a plow's real merit.

They have made good wherever used send they are used all over the

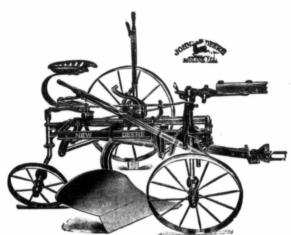
STRENGTH, durability, light draft and ease of operation give plow satisfaction. You get all these qualities when you buy a New Deere.

MADE OF THE RIGHT MATERIAL

Not a cheap piece of material ses into the New Deere. This is one reason the New Deere. Inis is one reason the New Deere Sulky and Gang give from three to five years more service than ordinary makes.

LIGHT DRAFT AND STEADY RUNNING

The New Deere is easy-running because of the special material and shape of the bottoms, the keen thin "Wedge" and the proper distribution of weight c. the wheels. The device for locking the plows The device for locking the plows the ground is so constructed



Light Running New Deere Sulky

Remember, when You Get a New Deere You Get Satisfaction.

Made to last-not a cheap piece of material in them.

Easy to handle—a boy can lift bottoms when team is standing.

Consistent good workers-they work right all the time.

that the harder the ground, and consequently the greater the draft, the more securely are the plows held to their work.

After the first furrow is opened, an entire land can be plowed with-out adjusting a lever, except per-haps to land the front furrow wheel when following crooked furrows.

In point of construction, ma-terial, ease of management, light draft, etc., the New Deere Gang and the New Deere Sulky are

The principle difference between the two is that the Gang is adapted for two bottoms and has both hand and foot lift. The hand lift makes it easy for a small boy to lift both bottoms when team is standing.

Ask your John Deere dealer to show you the New Deere equipped with "Q-D" Shares.

JOHN DEERE PLOW CO., LIMITED

Winnipeg

Regina Saskatoon Calgary Lethbridge Edmonton

Write us for further information about the New Deere, mentioning the C. T. & F.

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

Sp the

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ROLLER gether of th make Spread are n that h the d Deere than a in the though feature

> FEW PA chains in fact, parts in done av the ma tion, n until th large st

ONLY H load. is only hips. manure where i can alv



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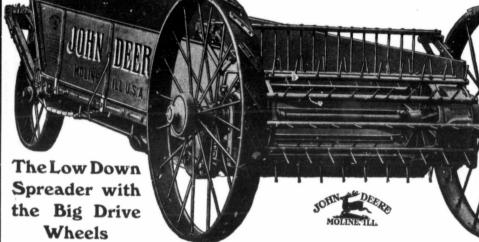
John Deere Spreader

With the Beater on the Axle

No Clutches

No Adjustments

No Chains



ROLLER BEARINGS, to-gether with the simplicity of the machine itself, make the John Deere Spreader light draft. There are many more reasons that have helped to make that have helped to make the demand for John Deere Spreaders greater than all those interested in the spreader business thought possible. These features are fully discussed in our spreader book. You can get it free.

PEW PARTS. Clutches, chains and adjustments—in fact, some two hundred parts in all—are entirely done away with. To throw the machine into operation, move the lever at the driver's right, back until the finger engages a large stop at the rear of the machine.

ONLY HIP-HIGH, easy to load. The top of the box is only as high as your hips. Each forkful of manure is placed just where it is needed. You can always see into the spreader.

Repeated trials extending over a number of years have demonstrated the ract that a Manure Spreader used on forty acres of land will more than pay the cost of the machine in one season by increasing the crop, to say nothing of the great saving in labor.

WHAT YOU WANT

Here's your chance to get exactly what you want in a manure spreader. One that is easy to load, light for your horses, free from constant repairing. and one that will last as long as you think it ought to.

WHAT YOU GET

With a John Deere Spreader you get a low-down spreader in which the

You get a spreader you get a low-down spreader in which the advantage of big drive wheels is not sacrificed for the low-down feature.

You get a spreader that is easy for your horses because it has these big drive wheels, together with roller bearings, few parts, the center of the load comparatively near the horses and evenly distributed over all four wheels.

There are no clutches to get out of order, no chains to give trouble, no adjustments necessary.

Built with a steel frame, securely braced, like modern railway bridgesstrong and durable.

WHY YOU GET THESE THINGS

Mounting the beater on the axle makes all these things possible in the John Deere Spreader.

It does away with some two hundred trouble-giving parts. It makes the belongs, not on the sides

spreader low-down. It permits the use of big drive wheels. It does away with clutches, chains and adjustments. It puts all the strain and stress of spreading on the rear axle, where it



and frame of the spreader.

It does a lot of other good things, too. They are fully illustrated and described in our new spreader book.

POSITIVE APRON DRIVE. By the use of a very simple locking device on the inside of the ratchet the inside of the ratchet feed, the apron is positive-led, the apron is positive-ly locked against racing when spreading up-hill or over exceedingly rough ground. The result is that when spreading with the John Deere Spreader, the manure is always spread evenly. A ratchet feed that is entirely new to manure spreaders is to manure spreaders is put on the John Deere. It is driven from one end of the beater by a large eccentric that gives the two ratchet arms forward and backward movement.

ssty

BEATER and all its driving parts are mounted on the rear axle. Power to drive it is taken from the rear axle through simple gears like those that have been used on horse-powers for many years. This construction is patented. You cannot get it on any cannot get it on other spreader.

THIS VALUABLE BOOK FREE

Our new book, "Farm Manures and Fertilizers," was written to give our customers plain facts about how to raise more crops on the same land; what kind of fertilizer to use, when and how to apply it; and how to get the best results. With this book we will send you an illustrated folder telling all about the John Deere



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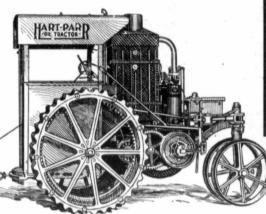


nent in this magazine. Don't forget to say so when writing.

The Simplest Tractor

of All!

Illustration shows the Hart-Parr "One Man" outfit—The 27 B.H.P. Tractor and 4-Furrow selt and hand tift plow.



Simplicity, plus reliability, are the two main things to look for in a Tractor

By actual comparison, the Hart-Parr 27 B.H.P. Oil Tractor has 500 to 1200 fewer manufactured parts than any other make. It contains only 300. All others contain 800 to 1500 each. Fewer parts means less chance for trouble, less complication in design, greater simplicity.

A Four-Piece "Backbone"

The main frame is a single casting, to which is fastened a front wheel frame of steel and two steel side frames. No channels in this foundation, no eyebeams or angles with a moltitude of pieces—just four, strong, sub-

stantial castings. Long experience has proven this to be the ideal construction for this size tractor. The engine crank case, transmission cases and tractor frame are combined into one unit, designed to withstand the heavy strains of rough, uneven fields and roads.

The "vitals" of this tractor cannot get out of place or go wrong.

Solid Steel Drivers

The drive wheels are solid eastings—not built up nor pieced—and are act with our famous wave form lugs. Casting these drivers of tough steel eliminates hundreds of small parts and insures great strength, yet light weight. One under test withstood a crushing blow of 216,000 pounds. For work in very soft soil, the drivers can easily be fitted with Hart-Parr "Hold Fast" extension lugs—the lugs which have a bull dog grip, but don't pack the soil.

Sure-Feed Simple Carburetor

The carburetor is of the float feed type, simple in design and has comparatively few parts. On no load, light load or heavy load, it handles CHEAPEST KEROSENE economically and successfully. It's a sure-feed carburetor in every kind of weather—hot or cold. Our method of cooling the motor with oil, further ensures perfect operation.

Every Part is Simple

Every part of the Hart-Parr '27" is just as simple and efficient as the parts we have just described. It is built throughout with big margins of safety and strength. No skimping anywhere. Nothing omitted which

will ensure the farmer a "better than usual" tractor, at a very reasonable price. We could build this tractor cheaper and make a bigger profit, by substituting cheaper materials, construction and workmanship. But we don't aim to see how cheap we can build it, but how simple, sub-

stantial and reliable we can make it. And this policy, we find, "makes good" for us, because the tractor "makes good" for the farmer and gives the longest possible service in actual field work.

Use it on 160 Acres

The Hart-Parr "27" is a big profit earner on as little as 160 acres. In combination with the Hart-Parr 4-Furrow Self and Hand Lift Plow, it is an ideal One Man Outfit, easily handled in field and belt work, at a surprisingly low cost for operation, up-keep and repairs.

Write for Literature

The original features of this tractor are strikingly pictured in some special circulars we have just issued. Write for them; also general catalog and literature on power farming costs.

Hart-Parr Company

30 Main St., Portage la Prairie, Man. 57 West 23rd St., Saskatoon, Sask.

1616 8th Ave., Regina, Sask.

THE CHAPIN CO., 325 8th Ave. West, Calgary, Alta.

SUB



feeding, watering the stock and cleaning the stable. BT BARN EQUIPMENT Send for illustrated books that I all the fac s. Book No. 21 ut BT Sec Stalls, No. 22 ut BT Sec Stal

Mention this magazine when writing advertisers

POTASH for **PRAIRIE** SOILS

Canadian farmers during the past year used almost 100 per cent more POTASH than during the preceding twelve months. The total value of POTASH stade in Agriculture in 1906 was \$87,848; for the year ending 31 March, 1913 the value was \$330,399.
POTASH is an INDISPENS-ABLE Plant Food. No ingredient can replace it. Every top to be a GOOD Crop should have a sufficient and readily AVAILABLE supply for its needs.
THE PRESENT SYSTEM OF CROPPING IS FAST DEPLETING THE SOIL OF ITS PLANTFOOD CONSTITUENTS. ARTIFICIAL FERTILIZERS ARE ONE OF THE PRINCIPAL MEDIUMS BY WHICH THE SOIL CAN AGAIN BE BUILT UP.
POTASH Increases Quantity.

AGAIN BE BUILT UP.
POTASH Increases Quantity,
Improves Quality and PROMOTES
MATURITY. This latter fact
should appeal strongly to the
Western farmer as he, more than
any other, realizes the untold value
of having his crop ripen a few
days earlier than it otherwise
would.

The interest in the subject of Fertilizers is increasing in the West and to meet this interest the following bulletins have been

"Artificial Fertilizers; Their Nature and Use."
"Potash in the Prairie Provinces."
"The Potato Crop in Canada."
"Farm.r's Companion," etc. These publications can be obtained FREE by applying to:

GERMAN POTASH SYNDICATE

1203 Temple Building. - TORONTO, Ont.-

Mention this magazine when writing advertisers

REMEMBER **Our Advertisers** are Trustworthy

ABOUT OURSELVES

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'E are starting 1914 with the same "resolve" that we stuck up as our monitor for 1913, and although the flies of last Summer did their best to smother it, they did not secceed. Our ink was indelible and waterproof-the fly spots were not. A damp sponge has dissipated the fly spots and our motto is brighter than ever. It reads:

> In all that we undertake, we will do the best we can, this day and every day.

Our purpose is a very definite one, and we like our job very much. We have no uncertainty as to what is due from us to the readers of this magazine. We read magazines ourselves. We are grateful to more than one publication and there is an intense desire on our part to earn the gratitude of every reader of the Canadian Thresherman and Farmer.

20

We have in our mind's eye certain periodicals that come to the house, which we welcome with all the delight we find in the advent of our most sunny-souled guest. There is a free fight in which every member of the household takes part, as to who shall be the first to appropriate all that the new arrival has to tell us.

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There is a halo of welcome around the familiar frontispiece because all experience reminds us that in the heart of it is to be found something fresh in food and fun for all of us. Its contributing staff seems to have found out by some talismanic influence if not by actual contact what we want in brain feed and mental recreation, and they regularly "deliver the goods".

BB

We also have an instinctive knowledge of the crowd who are glad to trust us with their dollar-a-year, and if they made it a hundred dollars they could not more successfully whet our ambition to make the Canadian Thresherman and Farmer to them the very best friend that comes to the house. There are some things that one would rather earn than a few dollars, and one of them is the sweet morsel called appreciation. With us it is a "craving"

BB

Next month you will see a little change in our window dressing, and while we do not think we need apologize for the content matter of this issue, you will also find some slight improvement, we believe, in the diet and light refreshment we offer when you get inside and come right up to the bar or lunch counter.

BB

"There's a heap of miscellaneous feeding in your paper," said a friend the other day, as he cheerfully tabled his renewal dollar. We know there is, but we are desirous above all things to have every line count; to have no indigestible husks or "waste products". Will you help us with your counsel or criticism?

BB

That 1914 may be to you a year of unexampled happiness and prosperity is the earnest hope and desire

E. H. HEATH COMPANY LIMITED

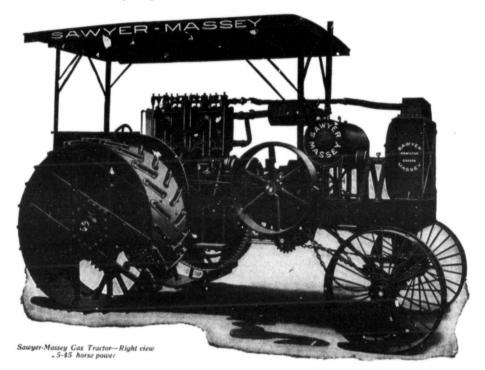


the CUDARY PACKING CO. Teronte. Canada, for our booklet

"HINTS TO HOUSEWIVES



The Premier Goods



Let the Premier Tractors Do Your Plowing

Gas Tractors have won popularity with farmers throughout Canada largely as a result of the efficiency and positive economy of the Sawyer-Massey Gas Tractor. There will be many more used this year than ever before.

Tests in the field and in coatests have proven the Sawyer-Massey Gold Medal Gas Tractor a powerful, reliable, efficient and economical tractor. It plows straighter, smoother furrows, does more work, requires less fuel and very little water, shows slightest vibration and lowest cost of up-keep. Rated at 25-45 horse-power, it easily develops over 50 horse-power, which indicates it is honest in construction and will not disappoint the user should excess power be required.

Those who desire Steam Tractors for any purpose will be interested in our new catalogue. This describes the entire Premier line, including the Gas Tractor illustrated here, grain threshers, road-making machinery and various types and sizes of Sawyer-Massey Steam Tractors. There is one Sawyer-Massey Tractor best suited for your particular need. Our catalogue will help you make your choice. Write for it today.

SAWYER-MASSEY COMPANY, Limited

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

Head Offices and Factories

HAMILTON, CANADA

Branches and Warehouses: Winnipeg, Manitoba; Regina, Saskatchewan; Calgary, Alberta Buenos Aires, Argentina.



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WINNIPEG, CANADA, JANUARY, 1914.

No. 1.

N seeking to do justice to the past year's record of Western Canada's winnings in international contests, the press of all sections finds itself confronted with a task that baffles its best efforts. With all sorts of descriptive genius, prophetic instinct and boundless imagination to draw upon, it must after all, in this case, feel very much what Dr. Johnson called "oppressed with a stifling consciousness of its own limitations."

A fitting climax to the year's accumulation of splendid achievement and hard won honors has been reached by Mr. J. D. Mc-

Gregor of Brandon in winning for the second year in succession the grand championship of the world for fat steers in what was probably the greatest live stock show that has ever been held on either hemisphere.

This, the fourteenth "International" blanketed all records, certainly in point of numbers, and in the judgment of specialists, both of European and American celebrity, it was at least second to no

living memory Gregor" all the more wonderful and impressive.

No man is yet able to grasp the full significance of the incident to Western Canada. Men are slow to assimilate the real import of these great happenings. Scotch men, particularly, are accounted somewhat sluggish in their efforts

OUR WORLD-WIDE WINNINGS

EN STAN STAN STAN STAN BERKERE BERKERE

the nature of a joke or some new experience that calls for the exercise of rapid foresight and calcuthey are not quite familiar.

McGregor is nothing if it is not a perfervidly Scotch name, and it is just possible that Mr. J. D. of that historic clan (known to his

felt a something that could never be expressed in language. What the thoughts of its owner were in

to "see the point" whether it is in in that vast assembly must have lation over a field with which that proud moment is not yet a



GLENCARNOCK VICTOR II

exhibit within Sweepstakes grand champion steer International, Chicago, 1913. Harry Bowman who fed the steer is holding him and Robert Lorimer, living memory of Ivanston, Ill., a recognized authority on bullocks, is inspecting him.

in downright quality — which makes the victory of "The Mc- aware of what he has really done. and what a stir this steer of his will make in the fortunes of succeeding generations-it may even in our own generation.

When the winning "Angus Doddie" was led into the lime light in the presence of the cloud of witnesses that filled the great arena, the heart of every Canadian

matter of general knowledge, but boys on the farm," but here to a select circle he has modestly imparted the information that he felt more proud of the conduct and bearing of the lad, Harry Bowman, who stood by its head than he did of anything else connected with the incident in which he did or did not take a responsible part.

The steer was reared and fed by

Harry, a boy of scarcely seventeen years. His father is Mr. McGregor's partner on the farm near Brandon on which the animal was bred. He came West from Ontario some five years ago at Mr. McGregor's invitation, and while at no time has he regretted the step he took, he has now reason to believe it was perhaps the most fortunate move he ever made.

His boy is of the type who is not likely to suffer from the

phenomenal success which has waited upon him so early in his career. Judging from the unassuming character of his sire and his own admirable deportment as he responded to the hundreds of inquiries that were addressed to him in that show, the quality of common sense is in the blood and an inborn modesty belongs to him which is likely to last him all his days.

What an incentive to young Canada! We hear a lot and we write a good deal about the attractions of agriculture, and "how to keep the

is the whole solution of the thing in a nutshell. This boy's father is an enthusiast in his own line. He at least takes a real delight in stock raising, and because of this feeling, he has instinctively imparted the same intelligent interest to his boy whom he has made his chum and that is the only way to handle a boy.

If any father seeks to train "the young idea" by driving it at the point of the stable fork instead of leading it by kindly suggestion and the guide rope of mutual interest, he had better give it up at once. That sayle of thing has never won out. It is an impos-

on earth to draw the suspicion upon himself that he is aware of his achievements in that unsavory manner we know of by "self-consciousness." He has done some thing great in pite of himself, and those who have an intimate knowledge of the man know also



Three best steers, grades or cross-breds at International, Chicago, 1913. Calf, yearling and two-year-old Aberdeen-Angus, all bred and owned by J. D. McGregor, Brandon.

sible policy because it is out of line with every prescription of natural law, and the end of it is what we meet with practically every day—lads and lasses who simply hate the farm and are glad to get away from it under any pretext.

Last year the Americans opened their eyes very widely when it came out that the grand championship had been won by "some man from Western Canada" with a black Aberdeen Angus steer. It gave "Canada" another boost and our cousins over the line in their genuine sportsmanlike spirit honestly congratulated "Canada." But when the same man with another of the same type lifted the money in this year's contest, the matter took on a still deeper significance and it was McGregor of "Brandon" that passed from mouth to mouth while that great concourse of the world's best stockmen held together.

So McGregor with his Aberdeen Angus cattle has branded the name of Brandon as deeply into the grey matter of the farming world everywhere as "Clydesdale" or "Hereford," "Ayreshire" or "Jersey" have become everlasting synonyms for certain types of animals that possess distinguishing qualities and that mark them off from all else in live stock and about which there can never be any peradventure.

Emerson has said that "Every institution is but the lengthened shadow of some great man. At all events, the initiation of that which is of real account in the progress of civilization is invariably the fruit of one strong soul that towers indefeasibly above its fellows, and it is to the honor and glory of the average man that he is capable of following that initiative."

J. D. McGregor is the last man

that the greatest tribute his fellows can pay him will not be found in the spreading eloquence of a complimentary banquet, but in a unanimous disposition to follow up what he has initiated in common sense, intensive farming.

There are certain aspects of this great world's triumph that were not in evidence at Chicago except to a few intimates, but which were very forcibly enunciated and illustrated at the complimentary

Banquet

tendered to Mr. McGregor in Brandon by his fellow citizens there.

For once at least it was demonstrated that a prophet is not always without honor even in his own country. This banquet was nothing if it was not a spontaneous and irrepressible outburst of the kindly feelings of the men among whom the guest of honor had spent the best years of his life. The largest banqueting hall of the city was crammed by enthusiastic citizens presided over by their Mayor (Fleming) with the guest of honor on his right, the pair being flanked by the Lieutenant Governors of Manitoba and Saskatchewan respec-

The gathering was thoroughly representative of the very best of Western Canada's stockmen, of the great transport companies, packing houses and grain interests, etc., and the speakers without exception were of an unusually high order: that is to say that there were no windy perorations got up for the occasion and which meant little or nothing. Every man who spoke had a practical intimacy with what he was talking about, and every word went home. It was an intellectual feast-a banquet of good things in the form of information on all points in which men have raised stock or grown grain with conspicuous and uniform success.

Much of what was said is already common property, but there were one or two points in the address of the guest of honor that struck a note which every farmer who is at the game in all seriousness will set himself to work out in his own kingdom if they have not already been operating in his particular programme.

One of these referred to the place which our common and easily grown barley holds as a food stuff. The all but universal impression has been that corn is the king of all feeds for hogs and cattle, but Mr. McGregor pointed out that this grand champion steer (Glencarnock Victor II) had never had a single meal of corn, neither did his championship herd of one two-year-old, yearling and calf.

While not depreciating the value of corn as a food, he made a strong bid for the more general use of barley in this connection and for its better cultivation in Western Canada. His comparison between the two was significant. The average crop of corn grown on ideal land was something like 33 bushels to the acre. In Western Canada the average yield of barley is about 35 bushels. but barley is commonly regarded a "scratch" crop that may be sown in "any old place." But if grown on the best land, the average need not be short of 50 bushels or more, and weight for weight, barley is very little if at all behind corn in feed value.

Still further point is given to Mr. McGregor's claim for the barley-feed in the fact that the grand champion sheep of 1913—Mr. J. D. Campbell's Grade Shropshire Wether—was not a

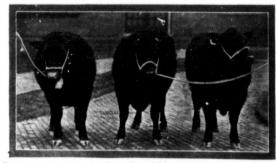
\$10.00 per head on the ewes which had been fed from the same staple home grown diet.

"We have proved that there is as much profit in one ewe as there is in an acre of wheat. Sheep will eat nearly any weed grown, and after the crop is off they will fatten on the stubble. There is no animal kept on the farm that is more profitable than sheep."

Commenting on the advantage. Western Canada possessed for the production of high grade pork, McGregor passed on to speak of his remarkably satisfactory experience in growing alfalfa. Last year on the occasion which some of his friends now said seemed to look like becoming an annual affair, he prophesied some very strong things with regard to the future of this wonderful gume in Western Canada. "After another year's experience in growing this valuable forage plant, I feel that all I said on that occasion has been abundantly verified and that every business farmer in Western Canada should interest himself in the cultivation of alfalfa on his own farm and in his own district. It means more cattle and better cattle, sheep and hogs, and more fertility returned to the land. It will return the humus we have stolen from the land with the result that we will see better crops of wheat and all kinds of grain; it means, in fact, the salvation of the country.

Saskatchewan's Honors

Saskatchewan was fittingly represented at the banquet by its Lieutenant Governor Brown and Deputy Minister of Agriculture, Frank Mantle. Mr. McGregor paid a graceful compliment to the splendid horse exhibit made at Chicago by the sister province and congratulated it on the fact that to him these Clydesdale beauties were one of the most noteworthy



Three best steers get of one sire, International, Chicago, 1913. Bred and owned by J. D. McGregor. The sire was "Golden Gleam."

corn fed animal, and the carlot of lambs that captured the highest honors had been fed on small grain and alfalfa. Further, on the Rugby farm conducted by his partner Mr. Bowman, Mr. Mc-Gregor informed his audience that they had secured a profit of

and interesting features of that wonderful exposition of quality horses.

Out of the very large number of entries that were sent in regardless of cost, it was a most gratifying fact that the Saskatchewan boys were nearly aiiple

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ways in the money with their the belief that he had acquired a animals which had been purchased at a figure running into many thousands of dollars.

From the attitude of the transportation companies to this incident in their offer of free conveyance of the grand champion to any point of Canada for exhibition purposes, it can be fairly assumed that when there is some solid evidence that men are raising quality stock, stock that is really worth carrying to the most distant market, the railways will not prove a stumbling block either in rates, delay or suitable accommodation in transit. They cannot help themselves. The country is behind this business of agriculture and whatever laws or by-laws exist to its prejudice and to the sole advantage of the carrying companies must give way to the will of the people.

But candidly, so far an alarming percentage of the beef and dairy cattle that is to be seen in process of shipment has been of a character to freeze the warmest blood of a constitutionally tropical enthusiasm. Breeding and feeding have been a matter of the purest accident. Anything within sight from Stink-weed to Sowthistle and Burdock, has been considered good enough for "the beasts," but to the man who knows a well bred and a well fed animal when he sees it, much of the "live stock industry" one sees on the farms and in the stock yards is of an indescribable type. It reminds one of Sam Sadler's

(Sam was never an expert in any matter of selection, and of all that concerned the dog world he was "highly and hopelessly ignorant." Some friend desiring to get rid of a mongrel without actually shooting it, took advantage of Sam's ignorance and foisted on him this squirming mixture of legs and tail that never had the promise of a tyke. Sam took it in good faith and in

home-bred stock, while pitted dog. Asking a friend who dropagainst celebrated imported ped in one day what he thought of it, the candid one replied: Well Sam, to tell you the gawd's truth, it's just the very sort of a dog that I would have expected you to take an interest in!")

This exactly illustrates the attitude of many "mixed-farmers" with regard to the live stock end of their business.

The pleasantries of this memorable occasion were sustained by every speaker — the various "clans" represented at the gathering furnishing a convenient rallying point for much of the shafts of wit that were fred off with an utter disregard to any "tenderness" that might afflict the object of those predatory times had been conceived and executed; that while his (The Cameron) clan had usually been satisfied with a few hur ble sheep, it was only the fattest herds of cattle that Rob and his following thought it worth while to transport across the border and drive into the security of their mountain eyrie.

The old records, however, have made a verbal distinction here which possibly Mr. McGregor did not know of, otherwise he might have been glad to take advantage of it. In the old "Black Books" of the several counties which describe the penalties that were meted out to those fellows who had the ill luck to be caught red-handed, the text invariably



distinct types of paying guests who with fair treatment are never in arrears. Cattle, sheep, hogs and poultry on the farm of John Corr.

more than justified, for every man knew his mark. The very atmosphere was charged with perfect understanding and complete accord that night. It did, however, look at one time as if there was going to be a general resurrection of those deadly differences that separated the McGregors from the Cameron Clan, and the Frazers from both in the old marauding days; when Rob Roy and his horde of caterans held by

"The good old rule, the simple plan. That they should take who have the power, And they should keep who can."

His Honor D. C. Camero.1 cheerfully reminded his neighbor that around the name of the Mc-Gregor the greatest depradations

aimed at. This recklessness was reads "cattle lifting" and "sheep stealing."

Mr. A. C. Frazer did his best to whitewash the record of his own ancestors of the '45, and as he proceeded, it became a study in human expression to look around the tables. It is at any time a perilous business to examine too minutely the out-croppings of one's family tree, but there was scarcely a physiognomy among those two or three hundred gourmands that just about this time did not begin to take on the gloomy foreboding of guilt; not only of a "guilty" ancestry but the still more humiliating fact that they had been found out.

But these kindly apologists of a long-buried line of forefathers

may take comfort from the fact that probably every man or woman he speaks to in these better regulated times has at least to carry the memory of some such bar-sinister bequeathed to the family by the left-handed operations of some scion of the house. There is a legend to the effect that a worthy daughter of the Frazer Clan (who was being assiduously courted by a not less worthy Cameron) felt it her duty to tell her "Joe" before it had gone too far that one of her uncles so far forgot himself that he was ultimately hanged for sheep stealing. "Let not that distress you, my lass," said the honest fellow, "if I hadn't ane uncle who was hanged for sheep stealing-I had five who ocht to have been!"

The climax of the evening's fun was the introduction to the banquet of the youngest calf of the celebrated herd. It was most tastefully decorated with the "family honors" captured at Chicago and elsewhere and wheeled in by the herdsman and his assistant on a diminutive truck. The incident was a surprise to most of the guests and needless to say evoked tremendous enthusiasm.

This was possibly the "Wee McGregor" that will be fed and nursed into condition for the great show of 1914, and it may be the "Grand Champion" for the third time in succession. Who can tell? Mr. McGregor is certainly not going to make a soft bed of his laurels. He contemplates going on after still finer achievements. He and his "men behind the gun," to whom he never fails to give the fullest credit, will go on to still greater conquests, and if they should go down in 1914 at Chicago or in any contest, they will go down fighting still.

There is a hoary old saw which not only Mr. McGregor but the humblest seeker after success should never lose sight of in any effort made:

> Tis not in mortals to command success; we will do more deserve it."



A corner of J. D. McGregor's alfalfa hay crop, near Brandon

THE CANADIAN THRESHERMAN AND FARMER

CANADA'S LEADING AGRICULTURAL MAGAZINE

E. H. HEATH,
PRESIDENT
E. W. HAMILTON,
MANAGING DIRECTOR
F. C. BRAY, TREASURER



E. H. HEATH COMPANY, Limited, WINNIPEG, CANADA



J. D. DUTHIE, EDITOR

C. B. FULLER, FIELD REP.

1914

JAN.

CUT OUT THE THORN

OUR

No advertisement is allowed in our columns until we are satisfied that the advertiser is absolutely reliable and that say 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 advertisement was seen in "The Carsman And Farmer." Be careful when writing an advertisement in "The Canadian Theresment in "The Ca

THE PURPOSE OF ALL LIFE is to secure the greatest results and the best results within the sphere of that life." Whatever the end may be or however frequent and deplorable are the lapses that figure as an almost daily occurence, in most lives, there is not a single selfrespecting soul who would not let it be known sometime if not all the time that it is his or her earnest desire and purpose to make a brilliant success. No one ever nurses failure. The worst man would have it believed of him that he is a good man and the most weak-kneed that he is capable of doing anything that any twolegged creature can endure or accomplish.

A NEW DOOR OF HOPE OPENS for everybody as we write on the threshold of 1914. With all the sanguine expectancy of young explorers we enter it. We have done the same thing consciously or unconsciously for over a half a century and as the years increase, we confess

that the quality of eagerness is not blunted; rather that it is mellowed and sobered somewhat to that degree of temperature that registers a moderate expectation as distinguished from the extravagance of the years of adolescence. Our belief in ourselves to do the right thing is stronger, if anything, than it ever was—notwithstanding a whole graveyard-full of short-comings—and it is in this spirit that we lift the latch and pen these observations.

ADVICE IS CHEAP in these days, and as the world wags on, its value continues to drop in the exchange of human experience. The best "advice" we ever got was the silent example of those men and women we became most familiar with, whose career seemed to be one calm and continued course of well-doing. They lived a day at a time. They never "preached". When they said they would do a thing, we grew accustomed to the feeling that in so far as those people were concerned, the thing was already done. We required no security for their promises and if they died before the due date, we could reckon on picking up the threads without having to spend one moment in disentangling the skein.

THEY NEVER SEEMED TO WORRY. They never did worry and we never found them frothing and fuming in a fit of temper because the train they intended to catch had just pulled out and left them high-and-dry till the same hour next day. No reverse or abuse administered by a fellow creature ever for one moment upset them or changed their attitude of habitual kindliness or good will. Why? Because they knew from every past experience that it was with them as with Bernard of Clairvaux: "Nothing can work me damage but myself, the evil that I sustain I carry about with me, and I am never a real sufferer except by my own fault."

WE ARE ALL TEACHERS—for the most part silent ones, and the more successful the more silent. No man likes to be told what he ought to do and very few fellows have done great things or travelled along in the quiet path of continued well-doing who were bullied or preached at. The real teacher has a wonderful way with him. He does not parade his possessions and yet he is the most suc-cessful "advertiser" on earth. He does not talk in liquid syllables but he presents his goods in such an attractive, not to say captivating form, that without a word of noise or pictorial embellishment he gets The demand for his wares is insatiable and will never know what it is to slacken off while the world lasts.

OTTAWA, CANADA, FOR TRANSMISSION AS SECOND CLASS MATTER

WE ALL KNOW TEACHERS OF THIS SORT and they are the only preceptors we seek to be influenced by. There is really nothing heroic about it, and yet in the deepest level of our natures we acclaim these men and women the only

heroes worth the name. They belong not to the "blow-hards," they are the last people on earth tooffer "advice," but the very first to render real assistance when they are given the slightest encouragement to help a fellow traveller. They do not live in "cold storage apartments." To us they seem to have reached as near to the goal of human perfection as there is "any use for.".

THE BUGBEARS OF THE AGES have been the elements of fear, anger, worry; but the teaching of our day has replaced that old hell-fire, predestination hopelessness by the process of simply eliminating or "denying" these false but fearfully damning nightmares. This teaching is embodied in the personality and lives of the men and women we have been speaking of and their hopeful, healthy band, thank God, is growing in numbers every day. Said one of them recently in writing to Professor James, of Harvard: "From the instant I realized that these cancer spots of worry and anger were removable, they left me. With the discovery of their weakness, they were exorcised. From that time life has had an entirely different aspect."

THIS DENYING PROCESS, moreover, is more than a negative quantity. The act of simple elimination while cutting off the most prolific source of failure, has left the men free to do something he could never else have done. This correspondent goes on to say: "It took me some months to feel absolutely secure in my new position; but as the usual occasions for worry and anger have presented themselves over and over again, and I have been unable to feel them in the slightest degree, I no longer dread or guard against them and I am amazed at my increased energy and vigor of mind, at my strength to meet situations of all kinds, and at my disposition to love and appreciate every thing."

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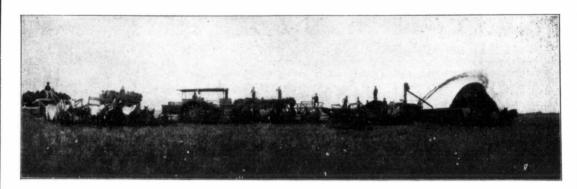
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The Kind that Makes Good Everywhere—It's a Famous Up-to-the-Minute AULTMAN-TAYLOR



Just What You Want For 1914

OUR 1914 CATALOG tells you all about the many superior features of construction of AULTMAN-TAYLOR Machinery. It's a book brimful of pointers. It contains just the information you're looking for. Do you want one of these big, new catalogs? If so, use the coupon or drop us a post card.

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Plowing Harder Than Threshing

My engine is a 25 h.p. International. I have never used it for anything but plowing and threshing. The gang I use is a P & O. This I think is a very good plow, only I find it very bad to clog up under certain conditions when the soil is dry and loose, or when the soil is a little gummy, but this could easily be overcome by putting a larger wheel for the lift.

As I have not used any other make, I cannot tell which make of engine is best, but from what I have seen I think the International Harvester is about as good as any. I think plowing much harder on an engine than threshing for the reason that dust and sand are continually gathering and collecting on the bearings.

As to my idea on the cost of using the gas engine on the farm, this I think all depends on how your engine is run. If your engine is running in perfect time. and in good order and gasoline not over 25c per gallon, I feel certain that they can be run to an advantage, but as to depending upon the engine to do all the farm work, I am afraid the man that does it will make a great mistake. I am speaking about this locality. There may be other places more suitable.

I never kept an exact account, but will give what I think a fair estimation of the cost when plowing. I travel two miles per hour easily, and draw six 14-inch As far as I know, it requires about 30 gallons to plow 20 acres, if your engine is running right and if it is not you might have to double that quantity. Gasoline in this locality costs 26c per gallon.

I like the gasoline engine the best for plowing summer fallow, as a general rule. The horse is a little weary after a long hard seeding, and it is much nicer to see the horse spending a holiday in the pasture than to be spending a couple or three weeks plowing summer fallow, with the temperature at 90 in the shade. As to using the engine for seeding or harrowing, I think it is a failure, at least in this locality, as there is too much sand and dust, and I think it would cost more to keep an engine running through this sandy soil, than it would cost to work it by teams.

As to threshing, I think the gas engine is equal to steam, providing threshing can be all done in warm weather. I am enclosing you a photograph of my outfit at

I find the Canadian Thresherman and Farmer a very interesting monthly visitor.

Yours truly, N. S. Irwin. Beaver, Man.

22 22 22

Horses Not In It

For the past two seasons we have been operating an engine on our farm with what we consider good success. Our land is very heavy clay, mixed with what is called gumbo. To work it suc-

We estimate the cost of plowing at \$2.00 for breaking and \$1.25 per acre for stubble plowing, and for seeding, we estimate the cost at 35c per acre.

One great advantage traction farming has over horses, is, that it enables the farmer with a small number of men to do a greater amount of work in the season when it should be done. For instance, last spring, we had 55 acres to break and 240 acres of stubble to plow, and 320 acres to seed. Of course we had part of our seeding done before the time of which I speak. Three of us did that work in three weeks, and it would have been utterly impossible with the usual number of horses found on a farm. Our bigit in the spring and it dies we will prime it again, and it will go, but if a horse dies, we debit loss account. I might also say that our repair bill for the past two years has not exceeded one hundred dollars including batteries.

Respectfully yours, McElmon Bros., Kronan, Sask

8 8 8

Hauling a Success

Your communication to hand requesting my experience in traction cultivation.

From my standpoint this method of tillage is an established success, and in many ways superior to the horses.

My engine is a Rumely OilPull 15-30, a very popular tractor in this district, and I find that it does a full day's work, and does it well. Fuel consumption is very economical; not above 36 gallons per ten hour day being used, and a daily consumption of about 16 gallons of water, which I consider very good for the amount of work done.

We have only two men at work on the outfit, engineer and plowman, and when a man is needed to haul supplies, one man can quite capably handle the work. In connection with the engine, we have a wagon-tank with a capacity of about 500 gallons of fuel oil and 100 gallons of water, thus making the supply of these quite simple. A number of Rumely owners here, last summer, imported 8,000 gallons of engine distillate which gives equal satisfaction to the kerosene, but is much cheaper, being laid down for about 15c per gallon.

My estimated cost for plowing is about 85c per acre, and for the combined operations of discing, floating and harrowing, about 55c per acre. Have done no seeding with the tractor so am unable to

estimate the cost.

I do not consider a tractor detrimental to plowed land, at least mine was not. But what would be the result if a heavier machine were used, I am not in a position to say, but do not think any material detriment would be done if extension wheels are used, although we never used them on our tractor.

The tractor is quite capable of handling six 14-inch plows in



"A halt to have a picture took."

cessfully we found that we had to have a large number of costly horses, any one of which was liable to die at any time, so instead we purchased a few horses and a 22-45 h.p. Hart-Parr OilPull engine.

We pull six 14-inch breakers for plowing sod, and fourteen disc plows, each cutting nine inches for plowing stubble, sometimes dragging harrows.

In a ten hour day we use about fifty gallons of kerosene. It required two men steady and an extra man and team about one day a week to haul fuel and water, as we use nearly as much water as oil for fuel.

For seeding with five drills, it requires three men and a team, and we haul five drills.

gest day's plowing was 40 acres in nineteen hours.

We have never done any discing, as all the discing we do can be done by our outfit in about two weeks.

We often hear people say that an engine is injurious to the land. but so far we have not found it so. The most of our land was broken with a heavy steam outfit, and since has been worked by the engine we now have, and produces good crops. Our oats seeded the latter part of May, yielding as high as eighty bushels per acre on spring plowing, and 250 acres averaging seventy bushels, and wheat on summer fallow averaging forty bushels.

Our engine at present is not eating anything, and if we start



IT WILL SOON BE SPRING

E CAN'T plow in January, but we can plan. A little figuring now will help you do your work easier, better and cheaper next season.

Count up the cost per acre to plow with horses. Then figure the saving of plowing with an OilPull or GasPull and you can come to only one conclusion: that you need one of our outfits if your farm is of average size or larger.

Find out about the Rumely Engine Gang and the Sanders Traction Disc and you will convince yourself that one of these plows will be best to complete your spring plowing outfit.

A GasPull or OilPull outfit increases your profits in other ways. With it, you can plow just as deep as you wish and you can prepare the seed bed better. It enables you to work fast so more ground may be planted, if you wish, and your seed put in at just the right time. These things mean better crops.

When you have finished your own planting, you can very likely help someone else and be well paid for your work.

An OilPull or a GasPull cannot be surpassed for threshing power. Either one will do most any kind of belt or tractive work in an economical and thoroughly satisfactory way.

We show some interesting catalogs in another advertisement in this magazine. Ask our nearest branch for the ones you want. Make your plans now. Figure out the matter this winter when there is plenty of time and be ready when spring opens. Let the Rumely man help with your plans. He will be glad to help figure the cost of doing your work with a GasPull or OilPull outfit.

While planning for next season, do not overlook our machines that will help with the work you have to do now. Olds Gasoline Engines and Falk Kerosene Engines with the machines they operate help with the jobs around the barn-yard, shop and kitchen all the year around.

Be Sure to Ask for Catalogs

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

NAMPER PR

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stubble, and five in breaking, but we usually hauled a set of harrows after the plows in stubble, thus making a nice smooth job with the one operation. In plowing stubble, we attached about 15 feet of wire to each plow beam, allowing them to drag in the furrow, this being a great success in burying the stubble, a bug-bear which many farmers have, but which is vanquished in this simple manner.

The second operation we combined discing, floating and harrowing, a procedure which was found very successful in tilling the broken land. We used two sets of double-cut discs, followed by a plank float and finally by two sets of harrows, thus completely pulverizing the soil ready for the drill.

We estimated that we turned over about \$3,200 worth of work at a cost of about \$1,300, that a chieving a net saving of some 60 per cent. All these figures are of course approximate, but I think they give ample cause for my assertion that traction cultivation is a success.

We did some grain hauling with the tractor and were able to draw 500 bushels per trip using four tanks, but we did not do enough to enable us to estimate the cost but think that the procedure is quite practical and indeed one of our prominent farmers hauled all of his grain in this manner, with a Rumely 15-30 engine and drawing 500 bushels to the trip.

This is the gist of the matter as I found it but of course differs with circumstances. However, taking into consideration all factors, a farm tractor is a great boon to all progressive farmers, who desire to get their work done in the shortest possible time, and with the smallest possible expense.

Yours truly, C. H. Rowe, Strassburg, Sask.

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Runs His Own Engine

Your letter to hand and contents noted. In answer would say, I have only had one summer's experience with my gas tractor so cannot give you any great amount of knowledge along that line. However I will be glad to give my opinion on farming with a gas tractor.

My engine is a 15-30 Fairbanks-Morse oil tractor. I burn on an average of 35 gallons of kerosene per twelve hour day, plowing about 12 acres. My reason for using kerosene is that the engine develops more power with it than it does with gasoline as fuel. I use about two barrels of water per day for cooling and mixing with the kerosene for fuel.

I run my own engine, and hire a man to run the plows and sharpen the shares. As my outfit is only a small one, I do not keep a team with it all the time. I have six horses on my farm, and when I need a tank of oil or water I take a team off the farm. I use one tank of oil for fuel in a week, and one tank of water, so I think it would not pay to keep a team with the outfit, as I can get all the outside work I can do close to home, then there is always some work on the farm that cannot be done with an engine, which makes it necessary to have an outfit of

For plowing, the cost depends on the nature of the soil. In very heavy soil I pulled four plows, and estimated the cost at \$1.80 per acre, but in lighter soil where I could pull five plows, I estimated the cost at \$1.60 per acre. Of course I have to haul fuel oil I think that an engine does not affect new land that has been broken only three or four years, but only land that has been broken, say ten or twelve years or longer; a tractor if used to work up a summer fallow, may have a tendency to pack the soil too firm to insure a proper seed bed, that is when used throughout the entire season.

Now, I have not been able to write a very extensive letter on tractor farming, but hope that what I have written may help your paper. I will close by saying that I think tractor work is cheaper than horse power, considering the price of horses and scarcity of men to drive them, as two men and a gas tractor can do as much work as five men and 20 or 24 horses.

Yours truly, W. J. Hughson, Bryceton, Sask.



Miles of splendid work

thirty miles, which adds more cost to the work done with the engine.

When seeding, I hauled three seeders, sowing about 50 acres per day. Of course it being my first experience in tractor work of that kind, I did not understand making a proper hitch so was handicapped in that line. Later I tried two seeders and harrows to cover the amount sown, which worked quite satisfactorily. think I have a hitch figured out now for this spring's sowing, which will work to a better advantage; if so, I will write you about it after I give it a trial. I think the cost of seeding would be about 35c an acre. I have not done any discing with the engine, only behind the plows. I tried pulling five plows and a disc hitched to the plows, which I think is the proper way to work up new breaking as the disc cuts and packs the fresh plowed land better than it does after the soil becomes dry. Of course this might not apply to all kinds of

Advice for Scrub Land

Dear Sirs: In reply to your letter, would say we have just had one year's experience with a traction outfit. We have a Rumely 25 x 45 OilPull engine, a 33 x 50 Geiser sieveless separator. The largest gang we have had yet was six stook teams and three pitchers, but I think we could keep eight teams and four pitchers pretty busy. We use one barrel of kerosene in a day of ten hours threshing. Our engine is oil cooled, and we use water in the mixture, about a barrel per day.

We have a P & O 8-furrow 14-inch plow, and we pull them all in stubble; we pull six in breaking, we have pulled the eight, but I think six is enough, as we do not like to overload the engine. We have never done any seeding, discing or harrowing. I do not think a tractor detrimental to plowed land; I think it is a benefit in this part, as our land is very heavy and the packing done by the tractor tends to ripen the grain earlier. We broke

some scrub land with our tractor and a John Deere 24-inch Jumbo scrub plow. We plowed right through poplar stumps fourteen inches across the stump. I would advise anyone who has scrub land to break to get a tractor and a scrub plow. We have broken scrub land with horses, but the most of the stumps and roots are left pretty solid unless they are grubbed out, but the traction leaves nothing.

Yours truly, Christy McNeil. Foxwarren, Man.

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A Small Repairs Bill

Dear Sirs: I own and operate a Hart-Parr engine, 60 b.h.p., and have been well pleased with the results. Last season I plowed 300 acres of stubble and 900 acres of prairie from April 10th to July 1st. I used six 14-inch plows and a packer attached behind the plows. I had two men working, besides myself, and by changing off worked the outfit about fourteen hours per day. Two men were with it all the time, one on the engine and the other on the plows. I averaged twenty acres per day and used from 65 to 70 gallons of coal oil and about 30 gallons of water per day with the coal oil. As the engine is oil cooled this was all the water required.

Kerosene costs us about 18c. per gallon and gasoline 30c., so there is quite a saving by using kerosene and it is more powerful. I consider the cost of plowing was about \$1.00, without my own labor.

I used a team half a day once a week to haul a tank of kerosene. They were working on the farm the balance of the time. The water I drew with a single horse.

My repair bill for the season was less than \$10 for engine and plows.

I have not done any seeding or cutting with my engine yet, but have seen a good bit of it done in this part of the country, and believe that either operation can be done with the engine very satisfactorily and more economically than with horses where the area is sufficiently large. An ordinary engine does not pack the ground enough to interfere with the growing of the grain.

Yours truly, Charles W. Gibbings. Rosetown, Sask.

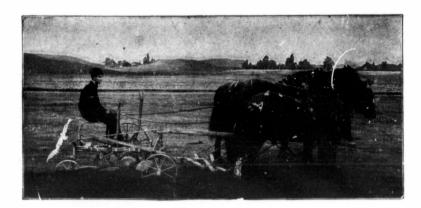
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Mrs. A.—I told Willie on his way home from school to get me a bar of soap.

Mrs. B.—Oh, he'll forget it; my

Mrs. A.—No danger; I said he might buy five cents worth of candy at the same time.

Better, Faster, Easier Plowing



PLOWING is not as simple as it looks to the untried man who watches at the edge of the field. Your experience has taught you that to turn your soil right is an exacting task. You can easily recall difficulties you have had in the furrow.

You are looking for the best plow for your land. Western Canadian soil conditions require certain types and designs of plows. You are aware of that. So have the Oliver Plow Works been aware of that. To western plowing problems they have given special attention. You will find abundant evidence, among users, that

Oliver Plows—Horse Drawn, or Drawn by I H C Tractors—Mogul or Titan

will give you general good service and least difficulty.

No plow has had more friends on the farms of West Canada, for instance, than the Oliver No. 1 Gang. It was built to do the most plowing in the shortest time. It keeps the horses off the plowed ground. Its wonderful lightness of draft—due largely to an Oliver feature, the centre draft principle—the convenience in operation, and other strong points, have made it a favorite plow.

Practically the same design, except for the single bottom, has led to the success of the No. 1 Sulky. And the Oliver tractor gang plows have grown up in Canadian estimation along with Canadian development.

That Oliver-built plows are right and lasting in principle, design and construction, and have given unusual satisfaction, you can realize from the tremendous growth of the Oliver output. Send a card now for a catalogue and full information to the nearest branch house. It is a simple matter and may lead to added profit and satisfaction.

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

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Jumbo right urteen would b land and a broken ut the ots are ey are

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The Improvement of Cereal Crops

By SEAGER WHEELER, Rosthern, Sask (From Dry Farming Bulletin)

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will now give my personal experience of hand selection covering the last six years. I took up this work at the request of the secretary of the Canadian Seed Growers' association. At this time I had no knowledge of the work, but it appealed to me as I was always particular as to the quality of the seed I used, cleaning it heavily in the fanning mill. I have not regretted the step taken as I have noted a decided improvement each season. At the time I took up this work I was growing a variety of wheat named Preston, a high bred cross between red Fife and Ladoga. At this time this variety was not fixed true to type. Some of the heads had a white chaff, others a reddish chaff, the grains being both yellow and red in color. There was no means of knowing what a head contained as far as the color of the grain was concerned. It was a grand mix-up. Reddish chaff contained yellow grain and red grain white chaff. The first year I made selections for the color of the chaff, selecting the white. After that was fixed true by selections I had to go after the color of the grain. This was done by selecting a double quantity of heads and by rubbing each head out singly by hand. The red grain was saved for the following year seed plot, and the yellow grain discarded. My Preston is now true to color of chaff and grain. This brings me back to what I stated before, that the beginners should commence with as pure a variety as possible and save some years' work.

Good Yields in a Bad Season

Regarding the quality of se-lected seed: In the year 1909 I had a field of new breaking prepared and made ready for the seeder the year following. chose one corner of this field for my 1/4 acre seed plot in the spring of 1910. The spring opened up early. Seeding commenced the last of March. After sowing my plot, the rest of the field was sown to the same variety of wheat, but the seed was not selected, but was cleaned up thoroughly by the fanning mill. The grain at the start made a very promising growth, but no rain fell until July 3, three months after seeding. During April and May we had frost on five different occasions which cut the grain down to the ground each time they came, succeeded by a hot spell during June. Each time the grain was frozen down it came up strong again. In this vicinity, whole fields were completely killed out, not a plant remaining. Many acres which were sown were plowed up at harvest time. My seed plot gave a return of 40 bushels per acre, while two smaller plots alongside sown to two other varieties of wheat (selected seed) gave a similar return of 40 bushels per acre. The rest of the field gave a yield of 28 bushels per acre, while many fields in the vicinity gave yields of six to ten bushels per acre. This was an exceptionally unfavorable season for this district.

Won the World's Prize

In the year 1911 I obtained small lots of selected Marquis wheat from the cerealist of the Ottawa experimental farm, the Rosthern experimental farm, and another source. The two first lots were carefully graded up and separation made of the small and large grains, and were sown side by side but separately. During the growing season there was a marked distinction between the plots sown to the large and the small grains, in respect to the height of the straw and size of heads. The selected seed obtained from Ottawa gave a yield of 80 2-3 bushels per acre and that from the experimental farm at Rosthern a yield of 70 5-8 bushels per acre, while the other lot of small grain gave a return of 45 bushels per acre. All were sown under equal conditions.

Part of these wheats were sent to New York in November, 1911, and won the Shaughnessey prize of \$1,000 in gold. Marquis wheat, which won the prize, is a highbred wheat, the progeny of a cross made between red Fife and Calcutta red. The cross was made about 20 years ago by Dr. William Saunders, then director of the Dominion experimental farm, Ottawa, but no attempt was made to fix this strain until Dr. Charles Saunders, cerealist of the farm, made selection resulting in Marquis wheat. Today it is the most promising variety grown in western Canada.

In the same year, 1911, my seed plot of Preston wheat gave a return of 53 bushels per acre. The multiplying plot of Preston wheat, the product of the previous season's seed plot, gave a yield of 48 bushels per acre.



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Demands Strong, Reliable, Dam-age-Proof Batteries. Columbia Multiple Batteries are all this and more. They are the most economical source of current

Get one from your dealer. If he does not handle them, write us and we will tell you where to them.

We will send you a 32-page book on Ignition, free. It gives you valuable points about finding and remedying trouble in gasoline engines and shows you how to keep your motor running properly. Address mail to

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We furnish the magneto for ignition and lights for your automobile,



motorcycle, gasoline tractor, motor boat or stationary gasoline 'engine. Either direct current or alternating current types of magnets furn-

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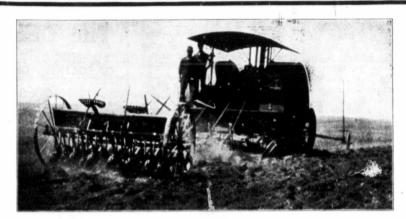
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Having taken up the work of selection of barley in 1910, my seed plot of Canadian Thorpe barley, a two-rowed sort, gave me a yield of 54 bushels per acre. O. A. C. barley, a six-rowed sort, gave 58 bushels per acre. This variety is the progeny of a single slected plant made by Professor Zavitz of the Ontario Agricultural college, hence its name O. A. C. The Canadian Thorpe barley took first prize at the Provincial seed fair, also the challenge cup. The O. A. C. barley took first prize at the Provincial seed fair, also medal for the best malting barley in the west. The Preston wheat took first prize at the Provincial seed fair, also, in 1911.

Good Seed Makes Winning Grain Preston wheat grown in 1912 on the same land that in 1911 gave a yield of 48 bushels per acre, gave a return the following year, 1912, of 30 bushels per acre. I am convinced that I could not have won the \$1,000 prize at New York if I had not been a member of the Canadian Seed Growers' association, and had experience in the selection of seed grain and cleaned the same up thoroughly by the fanning mill.

First prize grain does not come from the threshing machine direct without having been thoroughly prepared, and to grow good quality seed we must sow seed of a good quality for purity. Uniformity counts for a good deal in the eyes of the judge, and you cannot have uniformity unless the grain is pure and sound and graded in the fanning mill. A great number of persons have the impression that all the big prize grains are hand picked. While in some cases this may be a fact, I would say there is no need for this. Grow good seed from good seed, then make the fanning mill do the hand picking by a proper use of sieve, etc. Few prizes will be awarded to grain that has a mixture of other varieties on account of the variation in size, shape and color. By selection this may be avoided.

Regarding the sowing of plump, large, sound grains of a uniform size, I have noted each season an improvement in the beautiful, strong growth of the plant of wheat, oats or barley; the strong, rank leaves of unusual width and the rich dark color; the uniformity of color and stand; the habit of growth, the plants spreading from row to row, and the stooling qualities; all these indicate the strength of the plant. While I am not able to give data in a tabulated form as to result obtained by selection of seed, as this is the work for experimental stations, I can say that the results obtained in my case are extremely gratifying, and they have more than repaid me for the ex-



G O O DTRACTOR THE BIG FOUR "30"

This Trade-mark, the sign of the Big Four, will always be



found on a Big Four Tractor. Whenever you see this sign of the Big Four you will know that it represents a good tractor that year after year has proved its "goodness". It represents a smooth running, practical and enduring tractor. But besides all this, it represents a name that has

been built up by always making good.

Macoun, Sask., Dec. 7, 1913.

Macoun, Sask, Dec. 7, 1913.

Dear Sirs:—I think the Big Four "30" is the best plowing engine I know of. I did all my work with my engine. I didn't have a horse in the field all summer. We plowed and harrowed 55 acres and pulled home in two days. Was home a little after sundown. In harvest, we cut 60 acres in 4 hours. We pulled four binders. In seeding, we pulled two double discs, two II-foot drills, and a 24 inch harrow. We put in 1200 acres of crop altogether. Sixty acres was the best we put in in a day. In threshing, the engine did splendid work.

ABCHIE A COLLTER.

ARCHIE A. COULTER.

Govan, Sask., Nov. 27, 1913.

Dear Sirs:-I purchased one of your Big Four "30" engines in the fall of 1911, and have used it for threshing now three seasons and plowed two seasons. The engine has given entire satisfaction and has done everything you claimed for it. We pulled eight 14-inch plows in breaking and 10 in stubble with ease. I recommend the Big Four to any one planning to purchase a tractor.

Yours truly,

D. S. MOLLISON.

COUPON T O D A Y MAIL THIS

EMERSON-BRANTINGHAM IMPLEMENT CO., (Inc.) Regina, Sask.

Please send me copy of your latest Big Four "30" Catalog.

Namo

Address

You saw this advertisement in this magazine.

Don't forget to say so when writing

tra care and attention given in the selection of my seed.

Results in 1912.

I stated before that my yield of Preston wheat in 1910 was 40 bushels per acre; in 1911, 53 bushels per acre; in 1912, 44 bushels per acre. The season of 1912 was unfavorable to the production of good grain, as continued rains throughout July during the period when fertilization takes place, lowered the yield considerably.

The following are the results of my seed plot of one-fourth acre in 1912: Marquis wheat, 60 bushels per acre; Preston wheat, 44 bushels per acre; O. A. C. barley, six-rowed, 58 bushels per acre; Canadian Thorpe barley,

46 bushels per acre (a quantity was left on the ground on account of being badly lodged); Victory oats, 120 bushels per acre. A single selected head of Preston wheat gave two and one-half pounds of seed in one season.

In 1911 the Rosthern experimental farm sowed a small plot of my Preston wheat in comparison with several other varieties. This wheat stood third in the list of yields, giving a return of 76 bushels per acre, while another similar plot of ordinary Preston wheat obtained elsewhere stood very low in the list with about half of the above yield.

In 1911 I sowed five pounds of selected Marquis wheat and harvested four bushels, 30 lbs. when cleaned of chaff, etc. After being put through the fanning mill to separate all the smaller grain this was sown last season 1912 and gave a return of 80 bushels enough to seed 60 acres.

Large Returns From Good Seed One need not be shy of paying a little extra for good seed, as the returns are large. The following statistics will give the production of small grain for the United States and Canada in the vear 1912 in bushels:

U. S. W	heat		690,000,000
U. S. O.	ats	 . 1	,290,000,000
U. S. B.	arley		209,000,000
Canada	Wheat		206,029,000
Canada	Oats		376,943,000
Canada	Barley		46 500 000

Suppose that every farmer who

helped to produce this quantity of grain, grew selected seed (and it is possible by selection to raise the yield at least five bushels per acre, and in some cases more), what a sum in dollars and cents would be in the hands of the farmer!

If the boys and girls on the farms of Canada who operated the seed plots mentioned in my March article and raised the yield of wheat 10 bushels in three years, and of oats 20 bushels, why should not the farmers of the United States and Canada also do the same?

I have referred to my own case in the increased yield and quality in six years, but I have made no mention of the rest of the work accomplished. I would add that I have, by making single selections of individual plants, obtained entirely new types or strains. Also a red wheat from a_ white wheat, and a spring wheat out of a winter wheat. I have changed a long grain to a short grain. I have under test about 100 new wheats, on a small scale. I have a variety that ripens one week earlier by the selection of early strains. I have barley that is very stiff in the straw where the same variety lays down when grown on the same land. All these and more are secured by hand selection. These are only a few of the possibilities that lie in the hand of every farmer. All these different types and forms are growing in their fields and may be had by going after them.

Good Rules For Better Crops

In all this work the fanning mill plays an important part, and to be successful we must grade up our seed carefully. Whether selected or not, in conclusion I would mention a few details that should be observed while operating the seed plot:

Secure good pure seed from a reliable source.

See that the seeder is perfectly free from other grain and weed seed.

Treat the seed for smut.

Have the seed bed in as prime condition as possible.

Deposit the seed at a uniform depth.

Make the plot long and nar-

When the grain is headed out watch for and pull out any foreign variety or plants that are false to the type.

Allow the grain to mature.

Do not select heads when in a damp condition.

Select heads that are uniform to the type, as compact as possible, and well filled from the base to tip.

Place the heads in sacks half full and hang in a dry, airy place until ready to thresh.

Thresh the heads in the sacks.

Methods for Curing Meats

"There is no best way of curing meat. It is largely a matter of taste and judgment. Here is the approved dry cure: For 1,000 pounds of meat use the following compound: Forty pounds of common salt, 10 pounds New Orleans sugar, 4 pounds black pepper, 11/2 pound saltpetre, 1/2 pound cayenne pepper. Weigh the meat and use such part of the compound as that weight is a part of 1,000. Allow the meat to cool thoroughly, and after the ingredients have been properly mixed use half of the amount for rubbing into the meat. Place the meat in a dry, cool place, but never in a cellar. Allow it to remain for two weeks and then rub on the remainder of the cure and let it lie for about six weeks, when it is ready to smoke. Smoking should be done slowly and should occupy from four to six weeks, with very little heat Slow smoking gives a very delicate flavor. After smoking is finished, wrap each piece in paper, put in an unwashed flour sack and hang in a dry place.

"The brine cure requires exactly the same materials as the dry cure with the exception of the pepper. When the meat is properly cooled it is rubbed with salt and allowed to drain over night. It is then packed in a clean barrel, with the heavier pieces, like hams and shoulders. at the bottom. For every 100 pounds of meat use 8 pounds of salt, 2 pounds brown sugar and 2 ounces saltpetre. Dissolve these in four gallons of water and cover the meat with the solu-The thin sides of meat should remain in this solution from four to six weeks and the ham six to eight weeks. After the meat has been thoroughly cured and dried it may be smoked as in the case of the dry cure.'

The above is submitted by President H. J. Waters, Kansas Agricultural College, who believes in every farmer being his own butcher.

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"John," said the farmer's wife, "before we start for home, I think I'd ought to have that tooth pulled out. It's ached the whole day." "I know, Mary," replied John dubiously, "but by the time we get that jug filled an' the plug of terbacker, we hain't got much money to spend in luxuries."

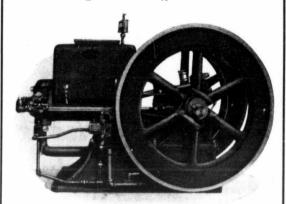
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Mary had a little lamb, She fed it kerosene; One day it got too near the fire. Since then it's not benzine.

The Dominion Engine

DISTILLATE GASOLINE KEROSENE

High Grade-High Power



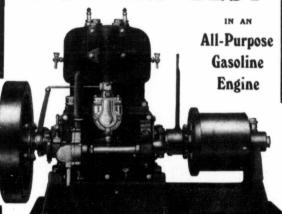
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The North American Machinery Co.

Higgins Avenue, (Near Louise Bridge) WINNIPEG

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6-8 H.P. 4 Cycle

2 Cylinder

Weight only 325 lbs.

Cylinder 4 x 4 inches. Power 4 to 8 H.P.

Speed 600 to 900 R.P.M.

Fly Wheel 14 x 4 inches.

emarkably light weight of this engine is obtainable only in this advanced type of outcion. With its light weight it is the most compact and convenient engine to or on the market. Its size adapts it perfectly to every kind of work on the farm, h of base 29½ inches; height of base, 29½ inches; width, 8 inches and 12 inches; batch of base, 4½ inches; batch height, 24 inches; batch the characteristic and the convenience of base, 4½ inches; batch height, 24 inches; batch the convenience of base, 4½ inches; batch height, 24 inches; batch the convenience of base, 4½ inches; batch height, 24 inches; batch the convenience of base, 4½ inches; batch the convenience of batch the convenienc

Also built in special electric light type with double fly wheels. Regularly mounted wooden skids: includes ignition system, etc., ready for operation. Magneto to order. our full specifications.

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Cushman Motor Works of Canada, Ltd. 202 Chambers of Commerce.

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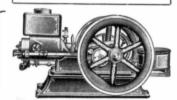
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The FARMER'S FRIEND AND WIFE'S FRIENDS

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



GUARANTEED FIVE YEARS

The DEXTER Dexter Double Levers make achine run One Third Easier



FREE.

Extra quick de-tachable belt pulley given with every Dexter.

High Speed is got by large gear wheel unning into a small ne (under the tub), nounted on the ball-pearing shaft that

THE WATERLOO BOY GASOLINE ENGINE

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

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

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156	H.P.	Air Co	oled Er	igine													\$ 38.40
		Hopper															39.20
		Hopper															56.80
4		Hopper															104.00
6		Hopper															148.00
8	H.P.	Hopper	Cooled	Engine					٠.								209.60
12	H.P.	Hopper	Cooled	Engine							٠.					٠	314.10

These engines will all develop from a half to a horse power more than they are rated above.

CHEAPEST POWER FOR EVERY JOB.



The DEXTER Power Washer
Safe Strong Convenient
Safe Price: Cash with does the busewife—and bousewife—and busewife—and busewife—strong the busewife —and busewife—strong the busewife —and busewife —an

Makes Washing So Easy. Just put in the parter, coap and the clothes—start the engine and go about your other housework. When the first batch only about 5 minutes) run it through the power wringer into the power wringer into the power wringer into the power wringer into the power with the po

The DEXTER Electric Washer



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

Admiration is expressed by everyone at the neat-ness, safety and convenience of this machine. When in operation, one becomes enthusiastic at its marved-legislatiu. Dut 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 soli-ing the clothes as the Dexter cleans by agitation rather than "Italian".

Burridge Cooper Co.

WINNIPEG and REGINA

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

A Musical Home

Is your home attractive to you, or do you simply live there because it is just a plain home? Home is only what you make it. If it is dull it's because you may be worried. If it's sunny, it's because you are sunny. If it's dull, there is an offer for you that will bring sunshine into every corner of it. If it's sunny now, you may make it a hundred times more attractive. The new Edison Phonograph makes a palace out of the humblest home-just as it makes the grandest home a place of the strongest attraction.

If you are tired, this wonderful instrument rests you. If you are seeking pleasure, its melodies will give you a world of delight. If true refinement is desired, the Edison gives you the benefit of the highest culture-real culture -that comes with the healthy music. If you are seeking perfect happiness, you will know what it means when you listen to an instrument that drives away all your cares and all your worries and gives you that wonderful pleasure that comes from a perfect voice, the perfect song, the perfect musical instrument.

Laughter and Song

Laughter and song move the world. They make the home. They are the perfect jewels that crown the domestic circle. The Edison Phonograph laughs, it sings, it talks. Its voice thrills you with its beautiful music; moves you with its wonderful singing or sets you of into a roar of laughter with its comical utterances. Where the Edison is, there is no care, there are no blues.

Music appeals to all. The Edison Phonograph is music itself. A child feels its refining influence and enjoys its delight. The young folks take keen pleasure in its waltz, two-step or reel. The old folks get the full joy that comes from songs they love or new things they admire. A happy home—that is what the Edison Phonograph gives. And a happy home is beyond price.

What do you do on a cold winter evening, when the storm blows without? Everything in the house is tight and snug. The fire-place casts a grateful warmth, the lights throw their yellow glow over the faces now smiling

conversation lags. What shall we

The Edison Phonograph is brought out and, lo! there bursts forth through the house the thrilling strains of a Sousa march. What is your mood? Serious or light? The Phonograph answers. It is a companion who never tires; a friend that never fails.

Suppose you want to fill your home with fun. You have only to pick out from the thousands c records what your taste suggests from a long list of rollicking songs, comical recitations and lively minstrel performances. Every shade of taste is represented, so that you can suit yourself perfectly. If your friends want to dance, you can have a marvelous selection of waltzes, two-steps, reels and jigs. If you want a Sunday service, you can pick the finest sacred music ever written—your favorite hymns. If you want singing, you can get the best of songs by the best of singers. If you would rather have instrument music, the list of

with joy. Reading tires and the band and orchestra pieces are immense.

Phonograph a Necessity

People who have the Phonograph now say that they could not possibly do without it. It is becoming what you call a necessity, and not an expensive necessity at that. It is not a fad—it never thes. You play the things you like over and over again. If you are tired of them, you have a whole world of new things to choose from.

You can have the Edison Phonograph sent to your home now and it costs you nothing. You know what a happy home will mean to you. If your home is already happy, send for this Phonograph anyway, and make it still happier. Why not have your home the happiest home?

B B B

"Oh, dear," sighed her hus-band's wife, "I can't find a pin anywhere! I wonder where all the pins go to, anyway?"

"That's a difficult question to answer," replied his wife's husband, "because they are always pointed in one direction and headed in another."

A CASE Tip

Consider first the problem of **your** soil. The Case-Racine Automatic-Lift Tractor Gang Plow (formerly called Case-Sattley) produces excellent results in **any** soil—in stony, hilly land, in gumbo, in soil netted with roots of underbrush. Ability to do this is what makes plowing with the Case-Racine Plows a profitable business.

Without taking into consideration the merits of **any** particular type, figure out just what **you** expect of a power plow: Great strength, a construction that eliminates breakdowns; easy adjustment and manipulation, evenness of draft, regular lay of furrow slice, straightness of furrow, evenness of cut—**deep** plowing, hence crop insurance.

The **one** plow that possesses these essentials in a greater degree than any other plow — as proved by the competitive trials at Winnipeg and the Wheatland-Illinois Contest—the plow that not only won the Gold Medal but all the Sweepstakes honors awarded by hard-headed plowmen, was the

Case-Racine Automatic-Lift Tractor Gang Plow



The catalog, just out, describes it in detail, as also the Case-Racine Jr.,—both equipped with our famous Automatic-Lift. Write for the Catalog today.

J. I. CASE THRESHING MACHINE CO.

(INCORPORATED) 741-791 RACINE, WIS., U. S. A.

CANADIAN BRANCHES-TORONTO, WINNIPEG, SASKATOON, REGINA & CALGARY

On Spring Plowing

Motive Power is of equal importance with the plow itself. Case Steam, Gas or Oil Tractors—just which one the fuel supply of your section determines—are head and shoulders "above" the others. Why? Our Catalog tells you. They all have contributed to the prize-winning performances of our plows.

All Case Tractors have the CASE "Clear View Ahead." All possess tremendous reserve power. They will pull more bottoms, and rolling and drilling can be done at the same time. Figure the saving there. The Case Engine, with its reputation for unequaled efficiency, is the seat of this Case superiority, and this is reinforced by the unsurpassed soundness and strength of Case construction.

Whatever the fuel, Case consumes it most economically. It stands up best under the hardest kind of service. When your plowing is done it is ready for other work, earning a continual return on your investment, without repairs, without expensive breakdowns.

Case Steam Traction Engines
Case Gas and Oil Tractors



Case Tractors are fully described in our new 1914 Catalog. We welcome your sending for it because it will prove, point for point, Case superiority.

J. I. CASE THRESHING MACHINE CO.

(INCORPORATED) 741-791 RACINE, WIS., U. S. A.

CANADIAN BRANCHES, TORONTO, WINNIPEG. SASKATOON, REGINA & CALGARY

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A MAN'S TALK TO MEN By Rev. Dr. J. L. GORDON

Keeping a Secret

THERE is nothing which classes a man so high in the estimation of his friends the ability to tell less than he knows. Men have confidence in a man who can keep a secret. In fact there is a sort of compound interest in the matter, for when men have a secret to tell, they always tell it to the man who tells no secrets. By and by he becomes the father-confessor in the community and men come to him in their social difficulties and commercial perplexities and ask him to arbitrate. Abraham Lincoln was of this type. He was always elected by a minority of men in an opposite party because they believed in him. He could talk without telling all he knew. Charles II. of England, when importuned to communicate something of a private nature, said, "Can you keep a secret?"—"Most faithfully," returned the nobleman. "So can I," was the answer of the king.

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The Hell which is Here

M OST folks believe in the hell which is hereafter, but few have much to say the hell which is here. There about are folks who are living in perdition for twenty-four hours out of every day simply because, somewhere, back in the days of immature youth they handled things in a careless spirit without even a vicious wish to be wicked. John Morley was hitting the nail precisely on the head when he said that there were two things which every man ought to know, namely, the difference be-tween right and wrong and the difference between cause and effect. The law of cause and effect enters into every life, and the man who burns out the fuses of his body at twenty will hardly be a perfect specimen of physical health at forty-five. As Thackeray said, "We sow a thought and we reap an act, we sow an act and we reap a habit, we sow a habit and we reap a character, we sow a character and we reap a destiny.

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Travelling Abroad

RAVELLING abroad is great for those who love new scenes and new views. What can be more inspiring than to gaze upon the historical monuments of the past: Great battlefields, ancient cathedrals and venerable edifices. The homes and haunts of the children of genius, old cities, quaint villages, classic rivers and memorable hills. But the best thing about it all is that when we return home we find new beauty in the land where we live. We then begin to realize that the whole world is very much Drop out the difference in the years and the poetic measure of time and the new world is very much like the old. We have the same green fields, the same blue sky, the same silver streams and the same toiling and hopeful humanity. After all there is no place like home. James Smetham, a friend of John Ruskin, once wrote to a neighbor, who had invited him to visit Rome and

Venice:
"I ought to go with you to Rome, but my difficulty is to appreciate my own little back garden, our copper beech, our weeping ash, our little nailed-up rose tree, and twisting nailed-up creepers. My difficulty is to get all out of that. I think when I have finished with the back garden I will go as far as Rome!" In another letter he adds these wonderfully fine words: "I have just been down to the end of Church Street to get a before settling down for the night, and as I looked at the wild, wintry clouds I had a new feeling of immortality.

a a a Pegging Away

THERE are days when the postman brings us nothing. There are weeks when nothing develops. There are months when not a foot of progress is discernible in any particular direction. There are years when we simply and only mark time. For all our planning, toiling, schem-ing, working and worrying we have a net balance of nothing above taxes, interest and living expenses. And the hardest thing about it all is that nothing happens. wearied and tired of the eternal monotony. If something would only happen. If the stars would only move an inch from the exactitude of their everlasting habitation. These are the dry spells in personal experience, and blessed is the man who can endure. Abraham Lincoln being asked by an "anxious visitor what he would do provided the rebellion was not subdued after three or four years of effort. . . . "Oh," said the President, "there is no riternative but to keep 'pegging away!"

B B B Stand by Your Friends

TAND by your friends. Stand by them when they are right. Stand by them when they are wrong. That's when they need you most. When everybody wants the preacher to resign offer an inwants the preacher to resign offer an increased subscription if he will promise to remain. When everybody is "shunting" the Daily Exposer because of its attack upon some self evident sink of iniquity, send in a half page advertisement by way of encouragement. When the town has made up its mind that Mr. Nerdowell is down and out because of his last escapade in dissipation, make an opening for him in your establishment and plan to give him one chance more. There are so many judges, sheriffs, wardens and censors in the world that you can afford to err on the side of mercy. It is said that the late Thomas Coldwell, inventor of the lawn mower, was noted in Newburg for his charity. A citizen of Newburg once stole some money. He was bitterly attacked in consequence. But Mr. Coldwell stood by him and to a certain man who was managing him he said one day: "You, I see, are a fair-weather friend, George. Well, you are not singular there. Most friends are like you. There was a man who said to a convict: Always do right and your friends will stand

by you.'
"'Yes,' the convict answered bitterly, 'but the time a man needs friends to stand by him is when he does wrong.'"

a a a How Old Are You?

T is small use worrying about your age Youth comes but once, and then slips by forever. The wise thing to do is to prepare for the inevitable. Do the thing which will bring a smile to your face about the time the wrinkles are supposed to gather there. Let the silver threads in your hair

and your endowment policy in The Rising Sun Assurance Association, mature about the same time. See to it that when that time arrives in life when physical vitality with most men is low, that your bank account is not in the same depleted condition. Watch maturity with a good base of supplies and old age with the comforts which belong to peace. But do not quarrel with the years or try and slacken the swift wheels of Time as they roll us into the highways of the Eternal. Such words as these would have been good advice for Queen Elizabeth for when the Bishop of St. Davids preached a sermon on the text: "Lord teach us to number our days that we may apply our hearts unto wisdom," Elizabeth, instead of thanking him, according to her custom, told him that "he might have kept his arithmetic for himself; but I see that the greatest clerks are not the wisest men."

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Asking a Blessing

T is a good deal easier to "ask a blessing" at the meal hour than it is to "act" the blessing in between meals. We have heard men complain about business, grumble about the weather, whine about their own physical condition, enlarge upon the faults of our present civilization," expatiate about the unsatisfactory character of help, and heave a sigh concerning the general drift of things the world over and then, sitting down before a noon-hour supply of ham and eggs, thank a "bountiful Jehovah," blessings and benedictions. for all his

It is said that once when Dr. Johnson was about to say grace, his wife stopped him by saying, "Don't go through the mockery of thanking God for what in a few minutes you will declare is not fit to be eaten." I am afraid many of our thanksgivings and prayers are often as superficial as Dr. John-

son's grace.

a a a

Infidels are Scarce

NFIDELS are scarce, these days. Most men know enough to know that there a God and few men of intelligence doubt that Christianity is a regenerating force in the affairs of men. But, ever and anon, you meet a man who cannot look upon religion, politics, society and business through the conventional spectacles of the average man. They are eccentric, peculiar, odd, sometimes "quaint" and occasionally impossible. But there is no reason why they should be branded as "infidel," "atheist," "agnostic" or unbelieving. Newman Hall wrote to a friend: "When I was in my room. -No. 28-at the hotel, one window commanding a view of the Mischabel and Weisshorn, and the other the Aletsch glacier, there was a rap at the door and an inquiry, "Will you admit a heretic?" It was Tyndall, who said, "How odd such heresy and orthodoxy should meet! This was my room the heat in the house." for several seasons—the best in the house. He had come to ask us to afternoon tea to meet Bishop Ellicott and others. He took me to the terrace of his sitting-room, commanding grand views of the Matterhorn and Weisshorn, and said, "Some people give me little credit for religious feeling. I assure you that when I walk here and gaze at these mountains, I am filled with adoration.

"The Great Minneapolis Line"

APOLIS

The Line of Satisfaction

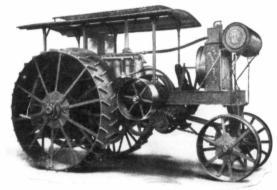
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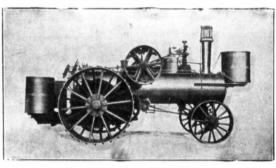
MINNEAPOLIS FORTY

Minneapolis Superiority means Satisfaction. Satisfaction means all the operator can reasonably expect or with conscience demand of a Gas Engine, including full rated horse power, simplicity of operation, economy in fuel consumption, strength and durability.

The Minneapolis Twenty-five is one of the first four cylinder farm motors on the market and has a record second to none. Hundreds of satisfied operators sing its praises because it gives satisfaction in the fullest sense.



MINNEAPOLIS TWENTY-FIVE



MINNEAPOLIS STEAM ENGINE



MINNEAPOLIS STANDARD SEPARATOR

The old reliable Minneapolis line of Steam Engines and Separators Need no introduction. They lead the world, because they satisfy.

Write us for our beautifully illustrated book of Threshing and Plowing scenes Free.

The Minneapolis Threshing Machine Co.

Hopkins

(West Minneapolis)

Minnesota

REGINA

WINNIPEG

CALGARY

EDMONTON

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

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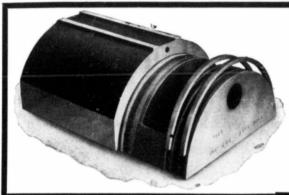
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GOULD BALANCE VALVES

The SUCCESSFUL THRESHERMAN of to-day must practice EFFICIENCY—an increase in power of his engine—a saving in the consumption of fuel, water and lubricating oil—the elimination of wear and tear on valve gear, all appeal to him because they are big factors in his profit and loss account.

To these threshermen we have sold thousands of Gould Balance Valves in the last nine years. They are enthusiastic. They know it is a paying investment, because they have tried it. In the "Evidence," on page 40, one thresherman says: "I would not sell my Gould Balance Valve for \$500 if I could not get another."

Send for the Evidence and a copy of our 1914 catalog. A post card with your name and address will bring both books postpaid. Address:

Gould Balance Valve Company,

MANUFACTURERS OF
Gould Balance Valves

Gardner Grain Conveyors Iowa Ensilage Cutters KELLOGG, IOWA.

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

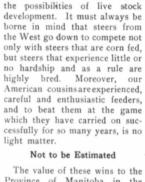
HE International Live Stock Show at Chicago, from 1913 onward, will mean more than it has ever done before to the farmers of the Canadian West. When in 1912 J. D. Mac-Gregor, of Brandon, carried off the grand sweep stakes for fat steers (the most coveted prize of the show) and took with his pure bred herd more prizes than any other herd at the show, everyone in the West rejoiced, but they did so with a sort of feeling that it had just been a kind of lucky happening, without much chance of its being repeated.

Beyond a statement, at the banquet tendered to him in Brandon in 1912, that the calf that was brought into the room would be champion in 1913, Mr. MacGregor said very little of his plans, and though some of his intimate friends knew that the steer was being steadily got ready for Chicago, the public knew little or nothing about it until the steer started for the show. Mr. Mac-Gregor, however, knew what he was about and in his own mind was confident that he had a steer that could beat all comers and his estimate proved correct. Straight through, class after class, from start to finish, the steer was supreme. Hildebrand, the official photographer at the show, the man who ranks next to Reid in the Old Country for the beauty and accuracy of his photographs of live stock, told the writer personally that he had photographed nearly all of the grand champions, and that Glencarnock Victor II was the first that he had not had to retouch his negative. He had, to use the phrase adopted by Goodwin of the Builders Gazette, "no holes in him." Not the greatest professional beauty can have it said of her that she has been photographed and the negative required no retouching. James E. Poole, one of the editors and owners of the Live Stock World, known as "the Dean" of the Union Stock Yards in all

Western Canada at the International

matters pertaining to markets and the quality of live stock, and who knows every man in the game from Illinois to Texas and back, said before the judging was done "That is sure some steer from Western Canada." I have been something more than winning the grand championship with a single steer. He won first for the herd of grade and cross bred steers, which was made up of a calf, a yearling and a two year

old. He also won first in a group

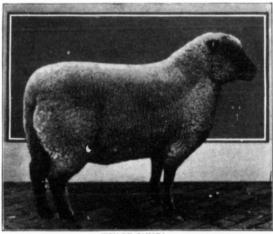


advertisement for Manitoba and



Province of Manitoba in the matter of advertising her possibilities, simply cannot be estim-The fact that the State Agricultural College of Iowa at Ames asked Mr. MacGregor for the loan of this steer to make a tour of the State, is in itself most significant. Ames College fitted two previous grand champions. They competed both in 1912 and 1913 and were defeated by the black steers from Manitoba. They fitted to win both times and thought they had picked steers of good type to feed. Now they realize that there are some things they have to learn from the Canadian West, and they are determined to learn them. The fact that cattle now go free into the United States adds to the value of these winnings. The man who looks on the Manitoba steer and realizes that he has been largely fed on barley, which, with little more than half the cultivation given to corn, can be made to produce 50 bushels to the acre, is likely to make enquiry as to the lands in such a province, and to be attracted to that province with a view to stock farming.

The Hon. George Lieutenant-Governor of Saskatchewan, speaking at the banquet tendered to Seager Wheeler, on the occasion of his winning the World's Championship for wheat at New York, said that he be-



WON BY CANADA Grand champion wether of the 1913 International, at Chicago. Shropshire grade wether, bred and owned by J. and D. Campbell, Woodville, Ont.

here ever since there has been a show, and I have never had so many men come into my office and tell me what steer was going to be grand champion. Later, just as the show was closing, Mr. Poole said, "I have not heard a single man question the placing of the Grand Championship ribbons for steers. Glencarnock Victor II is the undisputed and unquestioned grand champion." This is praise indeed, but Mr. MacGregor succeeded in doing of three, the get of one sire. While Glencarnock Victor I was an evidence of what could be done in the way of feeding with coarse grains, turnips and hay, he was not conclusive. One steer does not make the feeding record of a country any more than one swallow makes a summer, but two grand championships, backed up by the herd prizes, is an advertisement not only for the wisdom of Mr. MacGregor in choosing the right type, but it is an amazing NCY fuel

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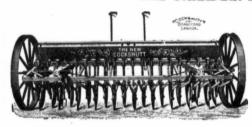
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There's a Difference in Drills and the Best Time to Learn about that Difference **Before You Buy**

Their difference is important to you because the drill you use will materially affect the amount of crop you harvest. The Cockshutt Drill is the best you could use. It means bigger and better crops. Read these superior features of the Cockshutt

The Construction

The frame is made of heavy angle steel, securely braced and Hot Rivetted, there are no bolts to work loose and cause trouble. A heavy steel I beam extends from wheel to wheel and is securely fastened to each axle. This beam supports the seed box and absolutely prevents sagging, with the result that there is no binding which would interfere with the regular operation of the feed cups, and the drills always cut an even depth; the seed is planted uniformly, and an even stand of grain is

An examination will convince you that this is the most satisfactory frame ever put on a drill.

The Discs

The discs are so placed that there is a gradual widening of space between the discs towards the rear, which prevents clogging; consequently they will turn and cut even in wet soil. Stones and trash cannot clog there and stop the revolutions of the discs. Dust-proof, self-olling bearings are used; when these chambers are once filled with oil the drill can be run an entire season without re-oiling. The furrows opened by these discs have wide bottoms, permitting the seed to scatter out so that large roots may grow and draw plant food from a large amount of soil. The discs are set staggered to effsure their passing over loose sod, or clods, which ordinarily would interfere with their work. Carefully fitted scrapers on both sides keep the discs always clean.

The Feed

The feed is chain driven. This is far more satisfactory than the gear drive because the chain is placed well under the seed box where dirt and dust from the wheels cannot be thrown on it, causing extra wear. The chain drive is the most simple, durable and reliable. The indicators are distinctly marked and are always under the eye of the operator. Set a Cockshutt Drill to sow a certain number of bushels to the acre and you can be sure that is just the amount you are sowing.

There are many other reasons why the Cockshutt is the most satisfactory drill for you to use. Ask us to send you full information, or make it a point to call on the Cockshutt Agent in your district and examine one.

FREE We will be glad to mail you on request our complete catalogue giving more information about Cockshutt Farm Machinery. This catalogue is fully illustrated and containinformation you should have before you buy any new implements. Write for it today.

COCKSHUTT PLOW CO., LIMITED

Branches: Winnipeg Distributing Points: Red Deer, Lethbridge, Edmonton, Brandon, Portage la Prairie

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

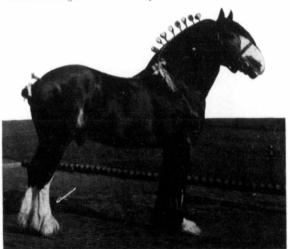
lieved this win by Mr. Wheeler had added five dollars an acre to the value of every acre of land in Northern Saskatchewan. It is not too much to say that Mr. Mac-Gregor winning the Grand Championship for fat steers at the International Show at Chicago, has really added an equal amount to the value of every acre of land in the Province of Manitoba. Manitoba has been sadly neglected by those who ought to have done most to bring her advantages before intending settlers. There is an abundance of splendid land uncultivated, the whole province is within easy reach of the biggest market west of the great lakes, and in future it will not be that everyone coming from the United States hurries through Manitoba to Saskatchewan and Alberta, but they will stop in Manitoba to at least look into the possibilities, and having done that fairly and honestly, in nine cases out of ten, the intending settler

One man, who farms somewhat extensively in Nebraska, was ask-ing questions about Manitoba after the win had been declared, and when he found that even with very inferior cultivation and planting it on dirty land, the average yield of barley for Manitoba for the past 20 years had

will buy his land in Manitoba.

been 35 bushels to the acre, and that this land could be bought at the present time from \$25.00 to \$45.00 an acre, said, "Why have we heard nothing about this land poses. It is the long haul that takes the bloom off finished steers. and from what I can learn you can get your steers in from any point in Manitoba to the Winni-

It is more than probable that Mr. MacGregor's wins have turned the tide of immigration, or at least a portion of it, towards Manitoba. The three provinces can all produce the feed and the same healthy and hearty type of steer, but when it comes to marketing, Manitoba still has the supreme advantage in being within such easy distance of Winnipeg. As the three provinces develop, the markets at Edmonton, Calgary, Regina and Moose Jaw, will more nearly approximate that of Winnipeg, but in the meantime at least Manitoba has the advantage, and J. D. McGregor more than any other man, has brought that to the attention of the intending American emigrant.



Fyvie Baron, Grand Champion Clydesdale at International, Chicago, 1913. Owned by Conyngham Bros., Wilkesbarn, Pa.

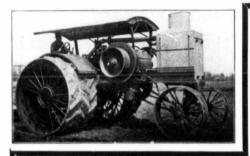
before? We have had agents all through our state singing the praises of Saskatchewan and Alberta, but from the stock feeders standpoint there can be no comparison in the value of the three provinces for feeding purpeg market in from 10 to 12 hours. I have three sons whom I was thinking of sending to Alberta, but since I have looked over these steers and find what they have been fed on, I am going to insist on my sons seeing Manitoba first."

Saskatchewan Horses

The Department of Agriculture of the Province of Saskatchewan is to be warmly congratulated in their enterprise in assisting the various breeders to assemble and

QUALITY SEEDS Farmers who are particular about the quality of the seeds they sow will be interested in our advertise-ment on page 63 of this paper. The Mooney Seed Co. Ltd. "Seedsmen to men who care."

Mention this magazine when writing advertise



As an Aid to Farm Prosperity FAIRBANKS TRUCK SCALE

Why take the other man's word? No man is infallible. Mistakes are bound to occur. Check up for yourself! By the use of a Fairbanks Scale you can know to a pound how much you deliver or receive. Modern business—and present conditions, more especially—compel attention to the small leaks: a Fairbanks Scale will pay for itself by eliminating

FAIRBANKS PITLESS SCALES

Comprise the same efficiency on a larger scale. We have a plan by which several farmers can combine to buy one of these on a joint ownership. Write for

Ask us for Booklets on the lines in which you are interested.

St. John

REGINA

Ottawa

HE farmer who reads needs little argument to convince him of the Tractor's place on the farm. His main object now is to decide what Tractor will best meet his needs.

The Fairbanks-Morse **TRACTOR**

enjoys a unique preference amongst all who have made closest study of the subject.

In the first place, it uses for motive power the **cheapest grades of fuel oil** instead of expensive gasoline. This feature alone saves the owners of a Fairbanks-Morse Oil Tractor hundreds of dollars during the life of the machine.

OTHER POINTS ARE

SIMPLICITY.—Practically every owner of a Fairbanks-Morse Oil Tractor operates it himself.

ACCESSIBILITY.—Pristons valves, etc., are easily removable without disturbing other parts.

STARTS ON COMPRESSION.—No pulling on fly-wheels; one man starts any Fairbanks-Morse Oil Tractor promptly and with ease

RELIABILITY.—Fairbanks-Morse Oil Tractors will operate under any weather conditions.

FAIRBANKS-MORSE OIL TRACTORS ARE BUILT TO LAST—Extra heavy brand shafts, connecting rods and engine moving-parts ensure long life to the engine with light repair bills.

Write to-day for our Booklets, and compare Fairbanks-Morse specifications with those covering any other tractor on the market.

We Manufacture

Fairbanks-Morse Oil Tractors, 15-30, 20-40 and 30-60 H.P.

Oil Engines, Portable and Stationary, 1 to 500 H.P., for all purposes.

Marine Engines, 2 to 4 Cycle, 31/4 to 100 H.P.

Binder Engines, adapted to all makes of Binders.

Hand and Power Pumps for every purpose Truck and Pitless Scales, special-

ly designed for farm use. Electric Lighting Plants, suitable

for country residences The Canadian Fairbanks-Morse Co. Limited

Vancouver



Toronto You saw this advertisement in this magazine.

SASKATOON

Don't forget to say so when writing.

CALGARY

Victoria

send to Chicaga an exhibit of 20 Clydesdale horses, the major portion of which had been bred in Saskatchewan. The horses were "in the money" in every class in which they were entered, and they created a very great deal of interest and made a strong impression. Three first prizes, six seconds, three thirds, and so on down the line is a mighty good record. Clydesdale horses are not so popular in the United States as are the Percherons, but within the past few years, several millionaire Americans of Scotch descent, have taken up the matter of Clydesdale horses, put in extensive breeding studs, and are doing all in their power to popularise the breed. Among these menare the Conyngham Brothers, Wilkesbarn, Pennsylvania, and the Fairholme Farm, Newmarket, N.J. These men are in a position, not only to pay any price they feel inclined to for horses, but they are in a position to pay very fancy salaries to expert breeders and feeders. To come in competition from the States from such stables as these, and get away with the money is something of which Saskatchewan may well be extremely proud.

WINNIPEG

Montreal

Among the aged stallions in a class of 35, Prince Robert, a Saskatchewan bred horse, was beaten for first place by Fyvie Baron, a Baron's Pride horse, was imported from Scotland, and for



J. R. Campbell, Sutherland, Scotland, foreign Judge at the 1913 International.

which they are rumored to have paid \$6,000. The champion mare, Harvoustoun Baroness, was also imported. No championships were carried off by American bred horses. One of the things that was

not only much admired, but also very much commented upon, was the speed and style with which the Western Canadian horses travel. Not one of those sent down was a bad mover, and comment around the ring side was very strongly in favor of the Canadian horses on this particular count. They were also very superior in the matter of legs and feet. This exhibit and the success of it, will also stimulate those who are in the horse breeding business to to come to Saskatchewan to do it. The fine climate and the fact that the horses spend so large a portion of the year in the open, gives them healthy, sound and well developed frames, from which may be built up the very highest type of draught horse. In speaking of the very gratifying success of Saskatchewan in exhibiting horses, it may not be out of place to say a word of warning to the Western breeder not to sacrifice everything to feet and legs, but to get a little more body on his horse. This is the only objection which can be raised successfully against Clydesdale horse breeding in Canada.

Sheep

Not only did Western Canada give so good an account of herself at Chicago, but Eastern Canada in horses and sheep, more particularly the latter, kept up her reputation. John Campbell carried off the sweep stakes grand championship for fat wethers, with possibly as fine a type of sheep as has ever come into the Chicago show rings. Ontario had many other winnings in sheep, and the Graham Bros., of Claremont were also successful exhibitors of Clydesdales.

Altogether Canada was very much in evidence at the International, and made so good a showing that they will no doubt bring excellent results in the line of an increased flow of immigration.

a a a Mother-Tommie, did you set the old hen?

Tommie-Yes, mum. Mother-How many Tommie, did you put under her?

Tommie-Sixty, mum. Mother-Why, Tommie, what did you do that for?

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Tommie-Oh, jist to see the old critter spread herself.



1914 A Bigger Year



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THE figure in the date line has increased; three has changed to four. Plan a greater year for yourself. Let our machines increase your crops, your profits, and your satisfaction.

We are better able to serve our customers now than we were last year. Our machines have been improved, and we are better able to take care of them than we have ever before been. We believe you should select your machines from our three big lines. Do not buy on our say so, but you

owe it to yourself to find out all about our machines before you place your order.

You should have one of our catalogs when you take up the question of spring plowing outfits, threshing outfits, or of other machines for next season. The Advance line catalog, the Rumely line catalog and the Gaar-Scott line catalogs which we show at the top of this page, give complete descriptions, specifications and equipment of the machines in our three principal lines.

Along the side of the page we

Indiana School of Tractioneering

Traveling Courses

Held in co-operation with Rumely Products Company, Inc., at the following points:

Calgary, Alta.	Feb. 23 to March 7
Estevan, Sask.	Feb. 23 to March 7
Regina, Sask.	Feb. 26 to March 7
Saskatoon, Sask.	Feb. 9 to Feb. 21
Winnipeg, Man.	Jan. 12 to Jan. 24

Arrange to take the course at our nearest branch and get maximum results from your tractor. show other interesting The OilPull booklets. catalog and the GasPull catalog give more detailed information concerning our tractors than that given in our **line** catalogs. The All Around Power Plant and Power-Farming are not catalogs. The All Around Power Plant is a farm engine text Power-Farming book. gives valuable tractor information.

POWER-FARMING MACHINERY

We Can Furnish the Sizes for Your Work

2001	11 Oz az
Kerosene Tractors	Silage Cutters
Gasoline Tractors	Grain Graders
Steam Tractors	Pump Jacks
Gasoline Engines	Feed Mills
Kerosene Engines	Grain Mills
Steam Engines	Grain Dumps
Engine Gang Plows	Saw Mills
Traction Disc Plows	Saw Rigs
Grain Separators	Power Pumps
Oil Tanks	Power Hoists
Water Tanks	

Our testimonial folders explain what our machines have done for folks farming under the same conditions as those under which you farm. We have a folder for each section. We can very likely send you one that contains letters from farmers near you.

Ask our nearest branch for catalogs. A post card will bring the ones you want. Talk to owners of our machines who live near you. If

you have work that is costing too much or that is taking too long, ask the Rumely man to explain how our machines will help.

We wish you a happy New Year, and if good machines and good service will do it, Rumely machines and Rumely service will make the New Year happy and prosperous for you all the year round.

Rumely Products Company

Incorporated

Power-Farming Machinery

Chicago

Canadian Branches:

Illinois, U.S.A.

Winnipeg, Man.; Regina, Sask.; Brandon, Man.; Edmonton, Alta.; Saskatoon, Sask.; Calgary, Alta.; Estevan, Sask.; Toronto, Ont.

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Talk No.

LXXVI.

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PRACTICAL TALKS TO THRESHERMEN

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

HE transmission system of a tractor comprises all those parts by means of which power is transmitted from the engine to the drive wheels. It includes the clutch, counter shaft, change speed gears, differential gear, driving pinions and drive

and style are used on tractors, but the simplest in construction and one quite generally used is the internal expansion clutch similar to those commonly used on steam tractors. In this style of clatch there is a heavy fly wheel whose internal face is turned smooth and

Fig. 169. Clutch used on Avery tractor

gears, together with all necessary levers by which any of the parts are operated.

The first of these to be considered is the clutch. It would be difficult, awkward and dangerous to have to start a gas engine geared directly to the driving gears and so some means must be provided whereby the engine may be started free and then afterwards connected with the transmission mechanism. This is accomplished with the clutch, which enables the operator to apply the load gradually thus relieving the motor and gearing of all shock.

The clutch is built in two sections, each of which may contain a number of parts. One section is attached to the engine shaft, the other to the transmission shaft. When the clutch is thrown in, the two parts of the clutch engage through frictional contact which provides for enough slippage to start the machine in motion gradually. If an attempt were made to start a heavy tractor with its load by suddenly applying the power, there would be grave danger of stripping some of the gears, breaking a shaft or of stopping the engine. There is even more necessity for using a clutch on a tractor than on an automobile and in either machine it is indispen-

Clutches of almost every kind

either made cone shaped or cylindrical. This wheel is attached to the engine shaft, while on the transmission shaft there is mounted a pinion to the hub of which there is attached a number of arms carrying wooden shoes on their outer ends which are made to press firmly against the inner

rim of the fly wheel by means of suitable toggle levers, thus locking the two members together by frictional contact.

Two forms of this clutch appear in figures 169 and 170. In the former, the shoe arms are counterbalanced with weights on the ends of the shoe arms opposite the shoes, for the purpose of overcoming the centrifugal force of the shoes and making it easy to release the clutch. The block on the right of the wheel is a brake to stop the belt wheel quickly in case of accident to any of the machinery that it drives. Figure 170 is a clutch of somewhat similar form used on a tractor in which the engine shaft is set parallel with the frame. The fly wheel is bolted to the engine shaft at A, while the expanding part of the clutch is rigidly attached to the transmission shaft.

Figure 171 shows another form of internal expanding clutch with driving pinion attached. In this case the fly wheel is keyed to the engine shaft and runs when the engine runs. The clutch arms and pinion are free on the shaft and revolve only when the clutch is locked to the fly wheel. This is identical with steam tractor construction.

The friction cone clutch used on a few tractors is a modification of the internal expanding clutch already described. In this case also the rim of the fly wheel is turned on the inside to fit a solid cone keyed to the transmission shaft, while the fly wheel itself is κeyed to the engine shaft. The fly wheel rim must be made extra strong to withstand the stress imposed upon it because it is made smaller in diameter than the wheels of the other kind of clutch. Both transmission shaft and engine shaft are in line with each other and are connected by means of the frictional contact between the two members of the clutch. The cone part of the clutch is generally faced with leather or asbestos in order to increase friction. The elements of a clutch of this kind appear in figure 172.

The multiple disc clutch, which is used so extensively on automobiles, also finds considerable favor with tractor designers. In this style of clutch the frictional



Fig. 171. Style of clutch used on Nichols & Shepard tractor.

surface is larger than in any of the other clutches described and is distributed over the surfaces of a number of thin discs of steel.

The effectiveness of the disc clutch can easily be demonstrated by pressing a disc of pasteboard between the two discs or a dollar between a couple of half dollars and trying to move the middle coin. It will be observed that only a slight pressure is necessary to clamp the inner one quite firmly. If the discs are perfectly smooth and true they hold even better than the rough coins. This, then, is the principle upon which the disc clutch works.

The two members of the multiple disc clutch consist of a number of thin plates, half of which are attached to a flange bolted to the engine shaft, the others fastened to the transmission shaft. A strong helical spring presses the two sets of discs together when the clutch is engaged,

Continued on page 54

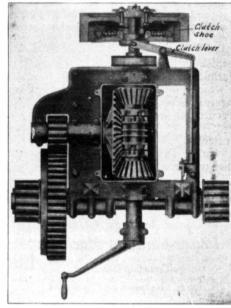


Fig. 170. Clutch and transmission of Twin City "40" tractor.

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PLAY A SAFE GAME

Your interests demand it.

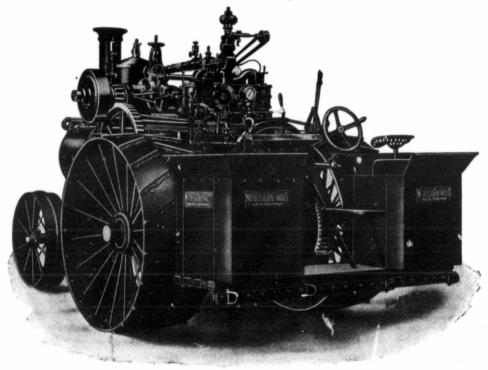
The interests of your customers demand it.

You cannot afford to take too many chances.

You don't have to.

In buying an Engine, a Thresher or a Tractor, buy the best you can.

Don't try to save a few dollars and get yourself in wrong.



Nichols-Shepard Big Double Cylinder Plow Engine

The old reliable Red River Special Line has always consisted of honest goods, honestly made.

A company that has been in continuous business since 1848 is behind it.

Sixty-five years of effort to produce what the thresherman wants and needs.

All the thought and effort of those years concentrated upon Traction Engines and Threshers.

No other line bothered with.

A large force of specialists trained to produce that which is best adapted to the threshing business.

Mr. Reinhold Spangenberger of Elgin, North Dakota, says under date of June 26th, 1913:

"The 30 Horse Double Steam Engine we bought of you in 1911 worked fine in plowing. We plowed 20 acres in twelve hours, and the 10 plows were nothing for it. We are well picased with our engine." Get right by buying your machinery from a good, strong, reliable company that is putting its whole effort upon threshing machinery.

You make more money with such machinery.

You have less break-downs and less trouble.

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You save his thresh bill with the Red River Special Line.

He knows it and wants you to equip yourself with that line.

It leads and you are safe in buying it.

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Thresherman's Question Drawer

ANSWERS TO CORRESPONDENTS

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Q. F.G. I am running a 20 horse power steam traction engine belted to a feed mill. The engine runs at 225 revolutions per minute and steam pressure varies from one hundred and twenty to one hundred and forty pounds. The engine has plenty of power and I run it with the reverse lever hooked up in the first notch from the center. I am thinking of buying a gasoline engine to run the feed mill and would like to know how large an engine I should buy. Also advise me which would be the cheaper to operate, the steam engine with coal at five dollars per ton or the gas engine with gasoline at sixteen and one-half cents per gallon and kerosene at eight cents. It requires two men to operate the mill and I thought if I got a gas engine one man could do the work. Would you advise making the change?

A. With the reverse lever hooked up in the first notch from center the engine will probably develop about 20 horse power at the brake when fully loaded or possibly a little more. It is evident that 20 horse power is as large as you would ever require to run the mill and we should think a 15 horse power gasoline engine would probably do the work acceptably. You do not state the size of the mill and so we can only make a rough guess. We know that most of the feed mills are advertised to run with from 12 to 15 horse power. Estimating that you use a maximum of 15 horse power it would require about sixteen or eighteen gallons of gasoline in ten hours or if you purchase a kerosene engine, about twenty gallons of kerosene the way most of the kerosene engines run. Knowing the amount of coal you use and the prices of kerosene and gasoline you can easily figure whether the gasoline engine would be a saving or not. We should think it would show not only a saving in the fuel of about two dollars a day but a saving in the wages of one man. There are a number of engines at the present time that will successfully burn kerosene. Nearly all of them have to be started on gasoline and after they come up to speed and get warm the gasoline is burned off and the kerosene is used until within a few minutes of stopping. You should be careful if you purchase a kerosene engine that it is properly fitted up for using both kinds of fuel and also that it has a water spray.

2

O. M.S.K. What is the total pressure to the square inch in a boiler when the steam gauge registers one hundred pounds plus the atmospheric pressure, which amounts to 14.7 pounds at sea level? M.S. says that this is wrong and that the pressure in the boiler is exactly what the steam gauge shows and no more. M.C., on the other hand, contends that the 14.7 pounds pressure was in the boiler to begin with-before steam was raised, and that it remains after steam rises and adds that much to the steam pressure.

2. What does my book mean when it asks the question: "What pressure does an ordinary steam gauge register? and it answers, "pressure above the atmospheric pressure of 14.7 pounds per square inch." Will a condenser save anything when used in connection with an engine?

A. 1. The absolute pressure per square inch in a boiler when the steam gauge registers one hundred pounds is one hundred pounds plus the pressure of the atmosphere which is 14.7 pounds when the barometer stands at 30

2. Atmospheric pressure is practically everywhere and is exerted both on the outside and on the inside of a boiler. The effective pressure in such a boiler where used with an ordinary non-condensing engine is just what the steam gauge shows. If a condenser is attached it reduces back pressure by allowing the engine to exhaust into a partial vacuum instead of against atmospheric pressure. The removal of back pressure amounts to the same thing as adding forward pressure and so the power of the engine is increased because the average forward pressure is increased.

Your book is correct. steam gauge registers steam pressure only and takes no account of the pressure of the atmosphere. A steam gauge on a cold boiler registers zero, while at the same time there is about 14.7 pounds air pressure in the boiler.

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Sewn-Canvas Thresher Belts Than any other Concern in Western Canada



Manufactured in England from the Highest Grade Cotton Duck to specifications called for by the Western Canadian market. Perfect satisfaction guaranteed. We are the sole importers and carry a large stock. All our belts are seasoned with non-freezing oil and therefore will not harden in cold weather. not harden in cold weather.

Write at once for our samples. your dealer does not andle our belt ask him to

Dealers Wanted Everywhere.

General Supply of Canada Ltd. 85 Water St. Winnipeg

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is a wonderful improvement on any style of slide engine. Saves Fuel, Oil, and Water, and increases power of engine greatly.

The Baker Balance

Valve

Statement of J. W. Partridge-had ten of the Baker Valves on territory last season and did have a single complaint. In fe-every man was more than pie with them. Engines used

and steamed much easier. A child could reverse AGENTS WANTED: We have a good proposition to offer you.

The Gray Adjustable Exhaust Nozzle is a great improvement on anybody's engine. Can regulate exhaust to give proper draft without causing back pressure on engine. Can be adjusted to any load. AGENTS WANTED.

YOU WILL NEED A MORRIS IMPROVED BEADING TOOL



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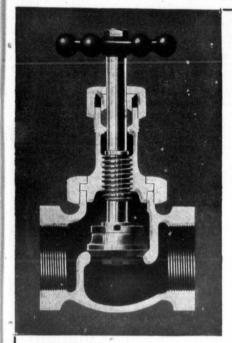
adjuster

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

you tell me what dead center is meant by crank end dead center. Is it when the crank pin is on the center farthest from the cylin-Please tell me where I

Q. A.G. Would like to have could get some information about setting a piston slide valve.

The crank end dead center in which the crank is the farthest from the cylinder. A piston slide valve is set just exactly like the



"Without an Equal"



Regrinding **Brass Valves**

Guaranteed for 200 lbs. steam pressure and approved by and registered in the provinces of Ontario, Alberta and Saskatchewan for the above pressures.

"The Valves That Give The Service"

And Specially Designed for Western Conditions. Specify them if you want VALVE SATISFACTON

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Penberthy Injector Co., Limited, Windsor, Ontario

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plain slide valve, in fact, it is a plain slide valve rolled up in cylindrical form. Lap, lead and all those things are just the same as in the flat valve.

Q. J.S. 1. How would you set a valve on a link reverse engine, that is, the kind of reverse used on the Gaar-Scott engine? Can you give an illustration of same?

A. The following directions, which we have copied from Traction Engine Troubles, explain how to set the valve on the Gaar-Scott engine:

1. Adjust the length of the reversing rod so that when the reversing lever is in the middle notch, the lower end of the bell crank lever stands vertically below the pivot.

2. Put the engine on the crank end center and rotate both eccentrics until one stands with its throw vertical above the shaft, and the other is exactly opposite. Fasten them with the set screws lightly.

3. Connect both eccentric with the rods parallel, making their legnth as nearly equal as possible, so that the link stands vertical with the block in the middle.

Turn the engine over slowly and notice if the valve stem strikes the end of the steam chest. If it does, shorten both eccentric rods.

5. Put the engine on the other dead centre, throw the reverselever over to one end of the quadrant, and place the valve as nearly central over the ports as possible and fasten it in position.

6. Turn the eccentric, in line with the valve stem, completely around, and note if the valve uncovers one port as much as it does the others; if not, move the valve on its stem until it does.

7. Reverse the engine and turn the other eccentric completely around the shaft. If the valve noes not, uncover both ports equally, change the length of the eccentric rod now in line with the valve stem until it does.

8. Now rotate the eccentric in line with the valve slightly past center until it gives the valve one thirty-second of an inch lead. Fasten the eccentric in place. Reverse the engine and do the same with the other eccentric.

9. Put the engine on the opposite dead center and note if the lead is the same; if not, correct half of the error by changing the position of the eccentric and the other half by changing the length

of the eccentric rod. Reverse the engine and do the same if necessary. Check results by putting the engine on the other dead

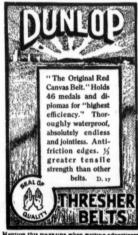
Q. E.E.T. 1. Would like to hear from some of the brother threshermen who have had experience with adjustable sieves, if they consider them as good as the round-hole sieve.

2. What is the gain in power, also the saving of fuel and water in compounding a simple engine? The working pressure is 160 pounds, size of cylinder 9 x 11, speed 220 revolutions.

A. 1. The consensus opinion of all the threshermen we have talked with is that the adjustable sieve is entirely satisfactory and fully as good as the round hole sieve for nearly all conditions. This also squares with the writer's experience in handling separators.

2. This question is an exceedingly difficult one to answer for the reason that there are a large number of variable factors which enter into the problem. question of correct proportion of the moving parts, the proper proportion of ports and clearance spaces, and the means for

preventing excessive radiation together with the nicety of workmanship all effect the problem. It is generally conceded that there is no gain in power in compounding, that is, if you have a 10 x 12 cylinder simple engine and then change that over, adding a smal cylinder to it, you would obtain no increase power. There should be a slight gain in economy, but just how much it is, is impossible to sav.



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Engineering books and engine designers state that for small powered engines the gain is much less proportionately than it is in large engines. Furthermore, the conditions under which the engine runs as to exposure to the wind and currents of air together with the arrangement of the niping and the boiler seriously affect the problem. We may state that in our opinion you would obtain no increase in power through compounding an engine of the size mentioned, but there might be a slight gain in economy. Under favorable conditions, amounting to as much as twenty or twenty-five per cent for traction engines working under outdoor conditions, it is doubtful if the compound engine is an advantage over the simple.

23

Q. C.B. 1. How do you find the striking points of an engine, or, in other words, equalize the clearance of the piston?

2. How do you set the valve on an engine having an automatic cut-off governor; that is, what position must the governor be placed in?

3. What points do you caliper from to obtain the center line of the cylinder in lining up an engine?

Explain the action of the 4. Corliss valve gear and how the governor changes the point of cut-off.

How do you change the speed of an engine with an automatic governor in the fly wheel?

A. 1. An easy way to equalize the clearance of the piston is, first place the engine on dead center, then scratch a line across the cross heads and guides; now remove the brasses from the crank pin end of the connecting rod and shove the piston to the end of its stroke or until it Now measure the disstrikes. tance between the mark on the cross head and on the guides. This distance will be the clearance for one end. Slip the brasses back in again and shove the piston to the other end of its stroke and repeat the operation. You will then have the clearance at the other end of the cylinder. If these two distances are not equal, make the correction by screwing the piston rod either in or out of the cross head a distance equal to half of the error.

2. In setting the valve of an automatic governor engine the governor is not adjusted at all, but is allowed to stand in its normal position while the valve is beinb set.

3. In locating the center line of the engine caliper from the inside of the cylinder at the head end and from the inside of the

stuffing rod box at the other.

The usual type of Corliss governor is what is known as a double pendulum governor, that is, there are two balls at the ends of long arms pivoted at the top to a spindle, which moves a collar on a vertical shaft. These balls constitute a revolving pendulum, and as they rotate the balls move outward and upward, moving the collar on the shaft and changing a cam, which causes the hook which pulls the valve open to be disengaged from the valve and thus allowing the valve to snap shut. If the speed increases, the balls fly out early in the stroke and unhook the valve, and if the speed is somewhat slower the valve remains open until near the end of the stroke.

The speed of the engine fitted with a fly wheel governor is changed by changing the tension of the governor spring in the fly wheel and by shifting the weights along the weight arm.

2

Q. K.M. Please explain how to figure the safe working pressure of a steam boiler having either single riveted or double riveted seams.

A. There is positively no way of figuring the safe working pressure of an old boiler. All we can do in such cases is to make an estimate, or, in other words, guess at how strong it is. If our judgment is correct, well and good, if not, there may be a disastrous boiler explosion. In examining an old boiler, the examiner's judgment should be founded on the general appearance of the boiler, its known care, the amount of work it has done and the kind of water that has been used.

All these things have a vital bearing. For example, alkali or acid water corrodes the plate quite badly and in a few years weakens it materially. Rules for figuring safe working pressure are strictly applicable only to new boilers and even then do not take into account any defects that may exist either in the material or in the workmanship, except as these are provided for in what is called the factor of safety. This factor usually amounts to five, that is, one-fifth of the calculated bursting pressure is taken as the safe working pressure.

RULE. Multiply together the thickness of the boiler plate, expressed in inches, by the ultimate tensile strength of the boiler plate, and this product, by the efficiency of the joint in per cent and divided by five hundred times the radius. The quotient is the safe working pressure for the cylindrical portion of a new boiler. Where the rule says "efficiency is per cent" used 56



"The Best Belt I Ever Bought"

Here's a letter that Mr. A. P. Goff, Labette, Kansas, sent us some time ago: "I have one of your 7" drive belts that I have used six years and it is all you claim for it. I have been a thresherman for twentysix years, and it is the best belt I ever bought. Of course I take good care of my belting. I run a wind stacker with a Gandy Belt and it does its work well. I am much pleased with it." The

GANDY Thresher Belt

to merit letters like the above must be a pretty good proposition, don't you think? Twenty thousand American threshermen have found it so at least and that is the best reason why you, as a thresherman, should investigate this belt.

The GANDY is the pioneer stitched cotton duck belt. It stands up all kinds of weather and service. It is the red belt with one green edge, trade marked and branded for your protection against the inferior imitations. Send for a free sample today.

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733 W. Pratt Street, Baltimore, Md. NEW YORK OFFICE-88-90 DEADE STREET

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THE BEST **Anti-Friction** BABBITT

The Frost King

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The "Frost King" is the product of our long years of experience, and is without doubt the most reliable Anti-Friction Babbitt made to-day. It is specially designed for Threshing Engines, Separators and Machinery of all kinds. If your dealer does not stock it-write for sample 30-pound box.

Hoyt Metal Co.

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

Steam or Gas Tractors **Equipped** with HE GOVERNOR WITHOUT JO give greatest efficiency FITTED TO EVERY BUILD OF

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

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A BELT WITHOUT A RIVAL

The test of time and continuous service in all weathers, under the most trying conditions, is the only test that will count in the life of a Thresher Belt. Nothing in power service used on the farm is of greater importance than the belt used. So much depends on its regular transmission of power that only THE VERY BEST that can be had is worth a moment's thought. The belts that have stood all tests—the belts that never buck, break, or slip the pulley are the



Lion Brand

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Maple Leaf

Endless Thresher Belts



Remember that practically all thresher companies doing business in Canada supply our belts as a part of their regular equipment. This is done in a great many cases in the face of a lower price from our competitors. The conclusion is obvious. The thresher companies fully realize that the belts that connect their engines and threshers in actual field work must be of the highest quality. They have tried our brands and found them not wanting.

Gutta Percha and Rubber Limited, WINNIPEG CALGARY

NOT IN ANY TRUST OR COMBINE

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

for a single riveted point and 70 for a double riveted. Otherwise the rule applies to either kind of riveting.

EXAMPLE. Suppose we have a boiler thirty inches in diameter, one-quarter inch plate having a tensile strength of 60,000 pounds, what is its safe working pressure with riveting?

SOLUTION:

15 x 500

With double riveting 56 would be replaced and the results would be 140 pounds for the working pressure. This answer applies only to the cylindrical part. If the boiler has a fire box it is advisable to figure this and take the smaller of the two results obtained for the safe working pressure of the whole structure. The rule for figuring flat surfaces is as follows:

RULE. Multiply the square of the thickness of the plate in sixteenths of any inch by 112, divide this product by the square of the distance from center to center of the stays. The results will be the allowable working pressure for plates seven-sixteenths of an inch thick and under. For heavier plates use 120 in place of 112.

EXAMPLE. In the above

boiler the walls of the fire box are three-eighths of an inch thick and the stay bolts are spaced five inches apart each way.

SOLUTION:

$$\frac{6 \times 6 \times 112}{\text{= 161 pounds}}$$

 5×5

The shell of the boiler will bear only 140 pounds, and this being the smaller number we will say that it represents the allowable working pressure.

3

Q. C.E.N. Will you please explain in your question department why it is that, in a boiler under steam during some parts of the day, the water evaporates so much more rapidly than at others, doing the same work and using the same amount of fuel? I have tried this very thoroughly, and can find no satisfactory solution. Some engineers tell me that it is because we have to fire harder on account of the low pressure of the atmosphere, but if such was the case how is it that one uses the same amount of fuel per hour and using two and seven-eighths barrels per hour and pressing the same amount of hay (two and both hours? one-half tons) would be pleased to see your explanation?

A. Before theorizing on the subject, we should first want to prove that the basis of your question is correct. You will pardon us if we suggest that possibly you may be mistaken in regard to the large difference which you imagine you find. The writer has run a large number of boiler tests in different parts of the country, using all grades of coal, and has made these tests very carefully, weighing the water and weighing the coal and measuring the amount of work done, and only slight variations appear from hour to hour and these can be accounted for by the condition of the fire, method of firing, or temperature of the feed water. In the case of a traction engine working out of doors, a considerable change in the weather or in the velocity of the wind would influence the amount of steam used a considerable amount, because of the heat wasted through radiation. Also, in traction engines, if the water is high in the boiler there may be considerable loss through priming, the water going out at the smoke stack. With the wind velocity practically the same and the temperature of the outside air practically the same, we feel perfectly safe in saying that there will be very little difference in the fuel and water consumption

for a given amount of work from hour to hour. There is one thing to take into account in the handling of the traction engine, and that is the position of the reverse lever. It is easier to use a great deal more steam with the reverse lever down in the corner and at the same time do no more work. This is something you must also take into consideration.

Exciting Fishing

A man was telling some friends about a proposed fishing trip to a lake in Colorado which he had in contemplation.

"Are there any trout out there?" asked one friend. "Thousands of 'em," replied Mr.

Wharry.

"Will they bite easily?" asked another friend.

"Will they?" said Mr. Wharry.
"Why they're absolutely vicious.
A man has to hide behind a tree to bait a hook."

B

An alien wanted to be naturalized and was required to fill out a blank. The first three lines of the blank had the following questions: "Name? Born? Business?"

He answered:

"Name—Michael Levinsky."
"Born—Yes."

"Business-Rotten."

Avery Threshing Outfits are the Big Money Makers

Charlie Ferrier, of Dover, Minn., was in our office the other day. He wrote us a letter in 1907, which read as follows:—

in 1907, which read as follows:—

"I am still running the two full rigs I bought of you in 1895 and 1896. They have given the best of satisfaction both to me and my customers. I thresh in the same locality every year and they run like new and thresh like the devil and I wouldn't run them a minute if they didn't."

He says he is still running the same old rigs and they are still threshing in the same old way. He tells us they have made him over \$20,000 clear profits.

over \$20,000 clear profits.

A few days ago we received a letter from another Avery customer, Estenson Bros., of Sarles, N.D. Here's what they say:—

"In 1903 at Ada, Minn., I bought an Avery 22 H.P. return flue engine and a 36-60 Avery separator. This same rig was used three years at Ada, four years at Sarles, North Dakota, and has been used the last four years at Sedley, Saskatchewan, Canada.

We have kept fairly careful account of what we have done with this outfit and also of what the repairs have cost us. On the separator we have spent \$225.00 for repairs. The repairs on the engine amount to about \$175.00. The number of bushels of all kinds of grain threshed in these eleven seasons in round numbers is as follows:—1903, \$2,000; 1904, 67,000; 1905, 36,000; 1906, 70,000; 1907, 80,000; 1908, 76,000; 1909, 60,000; 1910, 55,000; 1911, 45,000; 1912, 83,000; 1913, 77,000, making an average of about 66,000 bushels per year. The average for all kinds of grain per bushel will run about eight cents. Figuring our work on this eight cents. Figuring our work on this basis we made about \$5,280.00 per year, and allowing 65 per cent for expenses we had basis we made about \$0,280.00 per year, and allowing 65 per cent for expenses we had left \$1,848.00 per year for eleven years, which amounts to \$20.328.00. The original cost of our rig was \$2,250.00, thus leaving a net balance of \$17,078.00."

There's good money threshing with the right kind of a rig, handled in the right kind of way, as these two cases clearly prove.



Avery Single Cylinder Return Flue Steam Engine and "Yellow-Fellow" Separator.



Avery Double Undermounted Steam Engine and "Yellow-Fellow Separator.

Why You Can Make More Money Threshing With Avery Outfits

The 27 Field Tests threshing on canvas made with Avery "Yellow-Fellow" Separators proved beyond question that they were the Best Grain Savers built. No other make of Separator has ever made such a proven record of grain saving as was made by Avery Separators in these canvas tests—an average saving of 99 9-10 of the grain.

That's the first big reason why an owner of an Avery can get the jobs and make more money because saving the grain is the thing farmers are most concerned about

You can also do more kinds of threshing with an Avery-it will thresh any kind of and seeds, besides hulling clover or alfalfa, shredding corn, threshing peas, rice, etc., and is the only separator that has established a reputation for doing all of these things successfully

By being able to hull clover, shred corn. thresh peas and do other work, you can make a lot of extra money, and when you own an Avery Separator you can do it all with one machine without any extra investment for a huller or shredder

With an Avery Separator you can make a lot of money because you can please the farmers and get the jobs, you can thresh fast and you can do all kinds of work. And with an Avery, what you make is almost all profit. for you don't have big repair bills to eat up what you make. We guarantee Avery Separators against breakage stronger than any other machine. Avery Teeth are aranteed for life against breakage

To pull your Avery Separator you can suit your choice with an Avery Return Flue Single Cylinder Steam Engine, a Straight Flue Single Cylinder Steam Engine, an Avery Double Undermounted Steam Engine

Every one of these has proven itself in tests to be unusually economical in the consumption of fuel and each one is backed up by stronger guarantees than you can get with any other engine.

or an Avery Gas or Oil Tractor.



Avery 12-25 H.P. Avery Gas or Oil Tractor and "Yellow-Kid"



Avery 40-80 H.P. Tractor Threshing

Avery Threshing Outfits are the Real Big Money Makers. Get ALL the Facts about Write us, telling the kind and size outfit you are interested in, and you will receive full information with copies of our new complete 1914 catalogs. Use the coupon or write

AVERY COMPANY, 675 Iowa St., Peoria, Illinois

Canadian Avery Co. Ltd., Winnipeg, Regina, Calgary, Western Canadian Distributors



Get an Avery Bull-Dog Watch Fob

It's a Dandy. Representation of the Famous Avery Bull Dog Trade-mark. Send us the lists of names mentioned below,

Bull Dog Trade-mark.

Send us the lists of names mentioned below, together with 10 cents in stamps or silver, and we will mail same at once.

These are the lists of names to send:

1. List of Threshermen in your neighborhood.

2. List of Plow Outfit Owners in your neighborhood.

3. List of those talking of buying an Engine, Separator or Plow this year (if you know of any). Names, initials and addresses must be correctly

Avery Company, 675 Iowa St., Peoria, Ill. Gentlemen—Please mail new 1914 catalogs as checked here:

O Steam Engine O Tractor and Plow O Separator O Truck

What machinery are you thinking of buying in 1914?

Do Plowing, Grading and Other Work This Year and Make More Money

A. J. Plumbeck, of Egbert, Wyoming, bought an Avery 20/35 Tractor, 5 bottom Plow and Separator, and on Nov. 10 he wrote us:

"I made the price of the outfit the first season and had money left. I plowed 840 acres of land and threshed 43,000 bushels of grain and had no breakdowns whatever. I gave an order for a 40/80 tractor to-day to your Mr. Meetz.'

Emil Fredrickson, of Flaxton, N.D.,

"Just a few lines to tell you how well pleased I am with my 20/35 Avery Tractor and Plow I bought last spring and some of the things I have done with it. I plowed and packed 550 acres this spring. I cut 700 acres of grain with the Tractor and now I am threshing with my 32/54 Avery Separator. '9 Bjorgo & Berg, of Maxbass, N.D., says:-

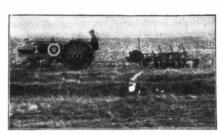
"Two years ago we purchased an Avery Tractor. In the two years we have plowed 1,700 acres, harvested 1,400 acres, pulled a road grader 300 miles and hauled 1,500 bushels of grain to market."

W. A. Dodge, of Collins, Mont., writes us that from June 1st to July 8th:-

"I have taken in \$1,431.00 for the plowing I have done."

C. E. Knapp, of Chinook, Mont., says about his 40/80 Avery Tractor and Plow:-

"Upon the showing I have made with this rig, I have been offered over 700 acres of breaking for spring. I finished a land of 10 acres in five hours and ten minutes and the owner gave me a check for \$50.00."



Avery 8-16 H.P. "Light-Weight" Tractor and 3-bottom Avery "Self-Lift" Plow.

Why You Can Make More Money **Plowing With Avery Tractors** and Plows

In the first place you can make more money because you can run the entire plow outfit alone. You don't need any plowman to help you. You save his wages and board. An Avery "Self-Lift" Plow makes it possible for you to run the entire outfit alone

In the second place, you can save fuel with an Avery Tractor. Avery Tractors have established themselves in contests to be the greatest combination gasoline and kerosene burning Tractors built. You can burn either fuel you wish.

In the third place, with an Avery "Light-Weight" Tractor you don't waste fuel or power moving around useless dead weight like you do with the heavy-weight tractors. It takes about two gallons of gasoline to move around an extra ton a day. If you have to roll around two or three tons you lose enough power to pull an extra plow. Avery Tractors are the Lightest Weight Tractor built considering their draw bar efficiency. Every Tractor is built light-weight from the 8/16 H.P. up to the 40/80 H.P. size. Because they don't waste power moving around useless dead weight you can do more work in a day which means more money and you save fuel which means less expense.

Because of the wonderful simplicity of Avery Tractors you can keep running steady right along. Avery Tractors are the simplest Tractors built. No fan, no fuel pump, no water pump, only one clutch, no counterweights on the crank shaft, no intermediate gear for traveling ahead. You can keep going right along no matter what kind of work you are doing, by giving the Tractor

an all-year-around big money-making business all the time.

the right kind of care. keep your machinery running as nearly all the time as possible. With an Avery Tractor you can not only do threshing, but can also do plowing, road grading, house moving, hedge pulling, hauling, shelling, shredding, clover hulling, ensilage cutting and other kinds of work and have practically



Avery 12-25 H.P. "Light-Weight" Tractor and 4-bottom Avery

The way to make the most money is to



Avery 20-35 H.P. "Light-Weight" Tractor and 5-bottom Avery "Self-Lift" Plow. We also build a 25-50 H.P. size "Light-Weight" Tractor which pulls 6 to 7 plows.

Write for new 1914 Catalog of Avery "Light-Weight" Tractors and "Self-Lift" Plows, and find out all about the work they will do. Avery Tractors are built in five sizes, 8-16, 12-25, 20-35, 25-50 and 40-80 H.P., and Avery "Self-Lift" Plows in all sizes from 3 to 10 bottom. You can get a size Avery Tractor and Plow to just fit your needs. Call on us at our Home Office or any of our Branch Houses, Jobbers or Agents. and write direct for new catalog.



Avery 40-80 H.P. "Light-Weight" Tractor and 8-bottom Avery "Self-Lift" Plow doing breaking.



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Results

By W. H. Underwood. am of the opinion that a large number of farm horses are fed more than there is any need of when they are idle or doing very light work, and probably do not receive sufficient feed when they are doing heavy work. The ration for a horse weighing 1,000 pounds when doing light work should consist of about 11/2 pounds of protein, 91/2 pounds of carbohydrates, 1/2 pound of fat and about 20 pounds of dry matter. As the work of the horse is increased the whole ration, of course, should be increased in proportion to the amount of work done. This ration is too light for a horse weighing 1,200 or 1,500 pounds, and should be increased accordingly.

For a horse weighing 1,000 pounds, 15 pounds of timothy hay would furnish .42 pound of protein, 3 pounds of corn .23 pound, 3 pounds of oats .28 pound, and 3 pounds of wheat bran .37 pound of protein, which will furnish a sufficient ration for a farm horse doing little or no work. This, of course, means an entire day's ration. The horse should have no more than this during the whole 24 hours.

When the animal is put to good ordinary work, then the weight of the corn and oats may be doubled or made 6 pounds each and about 4 pounds of bran given. If the animal was put to exceedingly heavy work, all that he could stand to do, of course the grain ration could be yet increased with profit. As a matter of fact, when a horse is doing all the work he can do every day, he ought simply to be given all he can eat up clean of the hay and grain, and supplied in the proportion indicated in the ration. I put wheat bran as the other concentrate in the ration because I do not believe there is any better by-product fed to the horse than wheat bran. It has splendid effect upon the digestion and is an appetizing, healthful food.

A great many horses are allowed to eat too much hav when they stand idle in the barn, too much for their own good. Most

Feeding Farm Horses for Best of those that have their breathing affected have this undesirable condition brought on by the pernicious practice of allowing them to eat hay throughout the day.

> I am an advocate of feeding corn in the ear to horses, because I believe it is good for their teeth to have to eat the corn from the cob. I am confident that just as good digestion is secured unless the animal has poor teeth or is old, from eating corn in the ear as from shelled corn or cornmeal. Furthermore, my horses seem to eat the corn on the cob better than they do shelled corn or cornmeal. Some horse owners grind their corn, cob and all, but as corncob meal is practically worthless as a food for horses, I believe that more harm is done in feeding it than good accomplished.

> The regulation of feeding hours is a matter of prime importance in feeding horses, and should be adhered to as nearly as possible. Too long abstinence between feeds or too much food supplied at a time, followed by voracious eating, which is usually the case in matters of this kind, is apt to bring on colic and indigestion.

A plentiful supply of good, pure water is equally as important as the feed, and arrangements should be such as to allow the animals to partake of water whenever they desire to do so, except immediately after eating. It is reasonable that horses should not drink directly after having consumed their ration, as the water is likely to carry out of the stomach a portion of undigested feed, which is wasted.

In addition to the feed and water, salt is necessary; but the animals should not be given a large quantity at irregular intervals. An excess of salt at one time produces congestion of the stomach and induces excessive thirst. It is a good plan to keep rock salt in reach of the animals at all times, for thus they can satisfy their appetite by an occasional lick. Those who do not follow this practice should introduce it gradually by giving the animals a little salt with their regular ration for a week.

The way horses are worked and



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ever introduced into Canadian farming. Let her be Shorthorn or Jerrey, Holstein or Ayrshire, the well-bred Milker will give the milk in abundance and the

MAGNET CREAM SEPARATOR

positively skim the last particle of profit-ing cream that can be taken from quality The "Magnet" is no less a part of will positively skim the last particle of profit-making cream that can be taken from quality milk. The "Magnet" is no less a part of Canadian history than these celebrated dairy breeds and is to dairy farming what the Self-binder is to grain growing. The "Magnet" is Made in Canada by Canadian men who have spent a lifetime in the practice of dairy-farming and the const-uction of dairy machinery. Among a score of exclusive features, its rock-firm steadiness on any foundation and its Square Gear are the admiration of every expert. There is no wobbling or gyrating as in the case of the old "worm" gear utensils. It means

GREAT SERVICE and BIG PROFITS

Our Slogan is "TO SATISFY"—and we will do it at all costs. We will prove every point we claim for the superiority of the "Magnet" on your farm-at our expense

Our 1914 Calendar is now ready for distribution.

The Petrie Mfg. Co. Ltd.

Head Office and Factory: HAMILTON, ONT.

Winnipeg, Calgary, Regina, Vancouver, Montreal, St. John, N.B., Edmonton, Alta.



advertisement in this magazine. Don't forget to say so when write



Made in Three Sizes 6-Shoe Power Separator

3-Shoe Hand Separator 1-Shoe Elevator Wheat Tester

WILD OAT **SEPARATOR**

We positively guarantee our Separator to remove EVERY KERNEL of Wild or Tame Oats from your SEED WHEAT and NO WHEAT LOST with the oats.

Perfect Separation of OATS from BARLEY or RYE for

WM. H. EMERSON & SONS

DETROIT, MICH.

WINDSOR, ONT.

Write for Circular fully explaining this wonderful Separator

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

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handled makes a great difference in the amounts of feed required and the flesh they will carry. A horse that is ill treated and excited all the time will not keep fat. Gentle treatment and sympathy and friendly relations between the man and his team will save feed and secure greater and more satisfactory labor from the animals.

Some farmers do not think it worth while to groom their work horses in order to make them look sieek and shiny, and would rather leave them in their natural state. It is well to bear in mind that in the domestic horse more is demanded than in the wild animal, and he consequently requires more fostering to supply the wear ot this extra demand. And grooming does not mean merely to cultivate a "sleeky" appearance, although I do not mean to depreciate the virtue of those who take pride in keeping their horses in fine coat and condition. It means a stimulating of the respiratory system, and consequently increased vigor and health of the animal.

Secretions are continually forming in the glands of the skin, which are given off in the form of perspiration, and this secretive action increases more rapidly the better the animal is fed or the harder he is worked, so that by perspiring freely nature comes to the assistance in preventing the pores of the skin from becoming choked. But the fatty fluid which comes from the glands in the form of sweat is apt to consolidate again at the roots of the hair and form a covering of dandruff, which clogs the action discharged through the pores of the skin. When a horse is doing no work grooming is not so necessary, and yet it pays to keep him well groomed, but the working animal must be kept in better vigor; and, besides, the labor and more nitrogenous food usually given induce more excessive perspiration.

When the horses come into the stable either wet or perspiring, they should be well rubbed down at once with a handful of straw or hay, and be given a good feed. After they have become dry a thorough grooming will well repay the labor. After the use of the curry comb and brush a good rub down with a heavy woolen cloth will help considerably in improving their appearance.

Considerable attention is demanded in harnessing a team. There are two ways in which this may be done. One is to do it in the very cheapest and easiest way that will enable us to get work out of the animals, and the other is to harness them not only to get work but also to protect the horses and make a good appear-

Be Sure to Get Your "Alpha" Engine Catalogue



It gives "real" information about a "real" gas engine that will give you "real" service and satisfaction.

Write at once to the nearest De Laval branch below for this catalogue. It contains a lot of "real" information that will interest you and then when you have read the catalogue, if you want to look the "Alpha" over and see for yourself its splendid construction and how perfectly it works we can no doubt arrange for you to do so.

ENGINE buyers expect good service. They have work to do and want an engine that is always in condition to do it.

A LPHA Engines never disappoint. They are so sure to start and keep running that they have knocked out all the mystery of why an engine does not work.

A LPHA Engines are strictly modern in every detail of design and manufacture. Good engineering and a wide-awake management has kept them ahead of the rest in developments that make for real service.

THE ALPHA Engine was first to successfully use the hopper cooled cylinder; first to adopt the built-in slow speed magneto and perfect a method of using it for starting and running to the exclusion of batteries. First also to perfect a carburetor commercially practical for use of kerosene and low grade fuels.

THESE are only three of the many features in this modern engine which bring real service such as engine buyers can find in no other machine.

THESE and its many other features are fully described in the ALPHA Catalogue. Write for it to-day.

PETERBORO

VANCOUVER

MONTREAL

WINNIPEG

De Laval Dairy Supply Co., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA AND MANUFACTURERS AND EXCLUSIVE DISTRIBUTORS OF DE LAVAL CREAM SEPARATORS AND IDEAL GREEN FEED SILOS. LOCAL AGENTS EVERYWHERE.

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

ance. No one who has had intelligent experience will minimize the importance of a well-fitting collar that holds its shape and protects the shoulders. Then of almost equal importance are the hames. They should fit snugly in the collar. Leather tugs are far superior to chains in that they do not so irritate the sides of the animal and rub off hair and even skin and flesh. The harness should set off a team instead of detracting from its appearance. Bright buckles and well oiled harness inspire the driver and feel better to the team.

Horses that are given good quarters and proper care, proper exercise and not overworked, a good ration and pure water, keep in good condition and are ready and willing to perform their portion of the labor on the farm. The owner gives great attention to their management, for he is well aware of the fact that it means considerable to him as well as to the animals.

Wake Up Canada!

(The following timely bulletin has just been issued by the Saskatchewan Department of Agriculture. We strongly urge upon our readers to give this matter their most serious thought.—Ed.)

The United States has removed the tariff on all meat producing animals; why? Because pro-

duction of meat within her boundaries cannot keep pace with consumption. This is an invitation to Canada and Canadians to step in and fill the breach. Can Canada do it? How is the Dominion situated as regards meat products? Investigation shows that Canada not only cannot supply her own people, but imports meat products from the United States, Australia and the Argentine to the value of several million dollars annually.

Is live stock in Canada increasing? Let us look at the cattle section of the live stock industry in the three western provinces. For the year ending July 1st, 1913, there was a decrease of 770,000 beef cattle in Manitoba, Saskatchewan and Alberta. In the United States in thirteen years there has been a decrease of 15,000,000 beef cattle. What does that look like? It looks like money for the mixed farmer; a steady market and sure profits for some time to come. Wake up! you Westerners and keep that calf, heifer or cow from the block. Get a strangle hold on your breeding females and hang on. Every one that goes to the butcher now is a dead loss to the people and the province.

Over 10,000 calves slaughtered in Canada every month. A dead loss and poor business. Wake up!



The peacock is a fine bird, but the stork delivers the goods. BBB

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Development Through Dry Farming

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have met many men in the last few years who had no idea what the International Dry-Farming Congress is trying to do, and no adequate conception of what dry-farming means in the development of the west. This shows that, no matter how much you print, no matter how popularly it is written, there are many persons who never will see it.

Yet the subject is important. It is discussed everywhere. Every locality has its story to tell and each one's view is given as the only safe and sane basis upon which to found a permanent agriculture for dry lands. Practically every section has its own local problems. This accounts for so many varying opinions. example, dry-farming in the Estancia valley of New Mexico must be conducted on a very different basis from the most approved methods used in the Judith Basin of Montana, because the growing season and the crops are different, due to the differences in altitude and climatic conditions, all of which must be taken into consideration in determining the best methods for profitable crop production.

Upon traveling through the various districts where dry-farming is being conducted, one is impressed with the tremendous influence it is exerting upon the development of the west. This is most noticeable, perhaps, to those who are familiar with the growth of the arid region during the past five years, or since the inception of dry land farming as it is now understood.

The New Crop Area

Districts where only a short time ago the unirrigated land, even in the very door yards, was utilized only for grazing purposes, and in some instances not even for this, are being now rapidly converted into productive fields of grain and other crops. Railroads are being extended into new areas, commercial enterprises are everywhere starting up, villages, and even cities, are coming into existence yearly as a direct result of the increased business due to this movement.

Millions of bushels of wheat and other cereals are being produced where less than five years ago none was grown, so that the west is now an exporter of grains instead of an importer, as was only recently the case. Each succeeding crop is much larger than the previous one and, judging from present indications, the

country lying between the one hundredth meridian on the east and the Columbia River basin on the west, is destined to become one of the greatest wheat producing sections of the United States. This vast region, moreover, will be famous not only for its crops of wheat, but the improved methods of farming will make possible the growing of forage crops on the dry lands, and thus the already important industry of live stock raising will be greatly enhanced.

Many people have recently settled within this area. In one year more than 50,000 original homestead entries were made in Colorado, Wyoming, Montana and New Mexico, to say nothing of the thousands who settled on dry lands by purchasing their holdings from various companies and individual land owners. These figures, of course, do not indicate the number of people who remain as permanent home builders, since a large percentage of them fail during the first eighteen months -that period which is most trying to the dry-farmer and especially trying to those who are unfit to take up an occupation so exacting.

Those who fail come from all sections of the United States, as well as from foreign countries; and, for the most part, are entirely ignorant of dry-farming methods. Many of them are lacking in agricultural knowledge of any kind, coming as they usually do from all walks of life, and failures attributed to the country are too frequently a direct result of unfamiliarity with farm life.

The Cause of Many Failures

Probably a more serious drawback than this, however, is the general lack of funds among the new settlers to maintain their families and develop their property until a crop can be taken from the land. Poverty, to begin with, is unfortunately too common, and under such circumstances development is slow and difficult. The farmer is often forced to abandon his own place to go in search of employment at the very time his presence is most needed on his own farm. The man who is able to remain and develop his holdings from the very beginning is the one who usually succeeds. When the first eighteen months are passed and a crop is harvested, even if it be a poor one, there is little danger of failure.

INTERNATIO

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PREATWEST WOVEN WIRE FENCING

THIS LOCK

Mr. Farmer, is the one used in our "Great West" Fencing.

You might possibly get some cheaper Fence than ours, but you will look in vain for any better.

Our Fences are made in the West, designed especially for the Western Farmer and we guarantee every Rod as to strength and durability.

It is the "Standard Fence" of our "Great West."

Write for our Illustrated Catalogue.

THE GREAT WEST WIRE FENCE CO., LTD.

76-82 Lombard Street, WINNIPEG, Man. Calgary Office:—Care of Reynolds & Jackson, Bor 2063. Edmonton Office:—Care of Raci Hunt & Gliddy, Cor. Fifth and Columbia Avenue.

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Engine Gang Plows

We want to send you a copy of our Traction Engine Plowing Catalog, in which we show all of our famous line of engine plows, including the Mogul, Senior, Junior, and Disc Engine Plows. P. & O. Engine Plows are built for every kind and condition of soil, and to withstand the hardest kind of work. Our New

Engine Grub Breaker

will interest you if you have work which requires a plow of this kind. It is absolutely the strongest single bottom plow ever built. And our Diamond Three-Furrow Riding Plow for use with horses, embodying the famous High Lift, Light Draft, and automatic control features of our well-known Diamond Gang (Two-furrow). These also are shown and described. Don't fail to get one of these catalogs. A postal request will bring it. Address:

Parlin & Orendorff Co., Canton, Ill., U.S.A. International Harvester Company of Canada, Ltd.



Winnipeg Brandon Regina Saskatoon Vorkton North Battleford Estevan Calgary Edmonton Lethbridge

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Fortunately, failures due to the above mentioned causes are yearly becoming less frequent. Isolated districts are being more thickly populated, business is increasing and there is a growing demand for labor. The man with small means can now usually secure employment within close range of his farm at odd times and without seriously interfering with operations upon his own place. Thus he can provide for his family while he is bringing his farm under cultivation. The future homesteader, therefore, will not be a pioneer in the same sense as those who preceded him. He will have the advantage of the experience of others, who have already succeeded in putting dry-farming beyond the experimental stage In fact he will be able to come in daily contact with successful dryfarming operations.

Many Agencies Are Helping

Conditions are being still further improved by the support of men interested in the legitimate development of the west. These men are assisting in every way possible to place before the public reliable information regarding existing conditions in the various localities. State experiment stations, farmers' institutes, and the United States department of agriculture, with the aid of such organizations as the International Dry-Farming Congress, are wielding powerful influences in the right direction. Such assistance could be made still more effective, however, if a more systematic and organized effort were made to collect, publish and disseminate accurate and reliable data regarding the most improved methods of dry-farming for each specific locality. Information such as can be obtained from the very best farmers now located in this belt-the farmers who have made good, together with the data obtained from government and state experiment stations and experts, could be made thoroughly worth while and of great assistance now to the new settler.

Future Lies in Live Stock

Notwithstanding the phenomenal growth that has been made in the west through the influence of dry-farming, and in spite of the fact that hundreds of farmers are obtaining a strong foothold upon the land, we must not forget that the dry-farming industry is new and that no satisfactory farm management schemes have yet been devised. If we ever expect this industry to develop into the thriving and permanent one that the country seems to warrant, we must encourage more diversified farming. Every dry-farmer of the future should be a stock man as well as a wheat grower. These two industries go well together and

CANADA Portland CEMENT SOME men ask for so many bags of "cement"— Others, more careful, say they want "Portland Cement"-But the man who does the best work insists upon getting "Canada" Portland Cementnd he looks to see that every bag bears this label There is a Canada Cement dealer in your neighborhood. If you do Write the Canada Cement Information Bureau, Mon-treal, for a free copy of "What the Farmer Can Do With Concrete." not know him, write for

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

each helps to bolster up the other. In fact, the only possible way by which we can expect to place dry-land farming on a permanent basis will be to adopt a system that will allow the raising of live stock.

By live stock raising we do not mean that every farmer is to transform his place into a cattle ranch or to keep such animals as those now found on the open range. We mean that a few good dairy cows, a number of hogs, some poultry, and a team or two of good mares should be kept on even the smallest of the dry farms. With our present knowledge of dry-farming and of the great variety of crops that can be grown there need not be a year when sufficient grain and forage could not be produced from 25 acres to feed the stock during the winter months, and 50 acres of land under proper management should supply the needed pasturage. From the live stock the farmer should realize sufficient income to provide for his family and to defray the running expenses of the farm, and the remainder of his land could be utilized in the production of such crops as would be found to

MACHINERY AT LESS THAN WHOLESALE PRICES.

As I have bought the remaining Machinery of the late Harmer Implement Co., of nuipeg, Man. I am offering it at the following prices:

Each
Each
Each

Garden Cultivator with full set of Tools
Garden Disc
Garden Spray, hand
Speed Changer (use with Engine to regulate speed when running cream separa or or churn, etc.
Christianson Harrows
Disc Plow Sharpeners
Baggers, 8 ft., suitable for any crusher

2 Caboose Steel Trucks with wide Big Chief.

1 Hopper Cooled Engine, 12½ H.P.,
Big Chief, equipped with a friction
clutch pulley (less friction clutch,
\$30 off

totary Harrows 4 (Aermotor) 50
Diac Plow Sharpeners 6 2 Seris Trucks, 1½ H.P. Engines. 6
Baggers, 8 ft., suitable for any 4 Sets Trucks, 2½ and 4 H.P. Engines rerusher 15 gines 7
The Big Chief Engines are made by the same firm as the Waterloo Boy and on's Engines. Repairs and all parts are interchangeable. the above Machinery is new, having never been used and is in good condition.

THOS. H. CUDDY 594 Agnes Street, Winnipeg.

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

be most profitable. Men who are now farming in accordance with such a plan are the ones who succeed all over the west.

8 8 8

You Can't Fool Pat

Mike went to the telephone, when the following conversation took place:

"Is this Miller & Jones?"

"Will you send up six-bags of oats, and hurry up with 'em.

"All right, who are they for?" "Arrah, now, don't get gay-for the horses, to be sure," and Mike rang off.

23

If you save money you're a grouch; if you spend it you're a loafer; if you get it you're a grafter; if you don't get it you're a bum. So what's the use!

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How to Guard Against Measles and Scarlet Fever

By C. S. HUTMAN, M.D., N.D., Agricultural College

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The greatest preventative force against any disease is the normal, healthy condition of the person exposed to the infection of that disease. A person's power or degree of resistance is his best safeguard. A lowering of the normal vitality, from whatsoever cause, tends toward the rapid multiplication of disease germs lodged in the body. Normal, vital resistance is the first great guard.

To keep that resistance at its best one must live normally-no excess in working, playing, eating or drinking. Sleep eight hours, work eight hours, recreate the body and mind eight hours. Eat plain nutritious food. Drink no stimulants but much pure water each day. Dress comfortably both as to weight of clothing and fit of each article worn. All clothing from head to foot should be loose. Anything worn tight constricts circulation, impinges nerves and lowers vitality. Exercise systematically as to kind, degree, duration, time of day and always with vigor and a cheerful mind. Muscles and vital force are built up by exercise. Eliminate the fret and worry of life. Worry and fear reduce the resistance more than any other cause. Sleep in a well ventilated room or out of doors. Get in the sunshine as much as possible each day. The sun's rays destroy many germs. The care of the skin is very important. The sweat glands are sewers pouring the refuse from worn out tissues out on the surface of the body. Any habit of life which tends to clog the mouths of these sweat glands will keep the poisons inside to reduce vitality. Frequent cleansing of the skin is a necessity of life. No article of clothing containing wool should be worn next to the skin at any time. Wool is non-absorbent, and prevents the evaporation of the sweat and greatly reduces the activity of the sweat glands. Wood cannot be sterilized and brings live germs in direct contact with the skin.

But measles and scarlet fever are very largely diseases of childhood. It becomes the duty of the parents to see that these directions for preserving and building up the resistance of their children are enforced. A normal healthy child rarely "catches" disease.

But should a child or older person become ill with either measles or scarlet fever he should be completely isolated from all others save the nurse or attendant. The parents of a sick child should, as an act of neighborly kindness, keep the child away from healthy children. The infection from both of these diseases lies largely in the skin. The infected skin peels off or scales off and is carried in many ways to others. In scarlet fever the discharges from the throat and nose are also highly contagious. A few ways of preventing this spreading of the germs of these diseases may be mentioned. The sick child should be isolated in an upper room removed from the other occupants of the house. Only one attendant and the physician should be allowed to enter that room. sheet moistened with a 1 to 2,000 solution of bichloride of mercury (corrosive sublimate) should be hung over the doorway. room should be free from all unnecessary articles. All clothing and bed clothing should be disinfected before leaving the room. Food remaining from a meal should be covered with disinfectant and burned. Utensils of all kinds should be bottled in the room before being removed. A simple expedient for the prevention of the spread of these diseases is the annointing of the entire skin surface of the patient with Cocoa Butter and wiping the surface with a soft cloth and then literally "burn the rag."

After the recovery of the patient the room should be fumigated with formalin gas and thorough y cleaned, and each and every article in it disinfected.

Absolute disinfection and cleanliness are the key words to the prevention of the stread of these diseases.

Farm Help

Farmers would do well to secure help now, to do general chores in winter and thus have the help on the ground for next season. Single men and married couples, with and without farm experience are more readily available now than at any other time of the year.

Any of our readers requiring help should apply at once to J. Bruce Walker, Commissioner of Immigration, Winnipeg, Man, who will give their request at-

Double Action Harrow For The West

8

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

DISK

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

Manufactured exclusively by

T.E. BISSELL COMPANY, LTD., ELORA, ONT. Write to any of the

Jno. Deere Plow Company's Branch Houses

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YOU WANT THE ENGINE



That has Satisfied Thousands of Farmers from Coast to Coast

Gentlemen:—I received the 7 H. P. gine and pulley and all the attachments good order. Since then I have set it to good order. Since then I have set it up under your instructions and have run same this week. I have been running a Joinch cylinder separator and it gave us great satisfaction. I am certainly well pleased so far with the engine, and every one who has seen it says that it is the smoothest running and yours truly, or the property of the control of t

Satisfied users by the hund-facts like this every

Users of Gasoline Engines Pay Too Much!

Users of gasoline engines are paying from one-third to one-half more than actual value for engines bought through the wasteful out-of-date "agent-and-middleman" method. Never was there a greater opportunity for us to serve our customers than in gasoline engines. Never has there been a better chance for us to demonstrate the practical value of our "factory to farm" method. I Horse Power

The Remedy for High Prices

\$3100

and unjust profits in gasoline engines is at hand. We now have what we believe to be one of the best engine building plants in the country, equipped with all the latest improved automatic and labor-awing made inergy, manned by an organization of the highest skill. In this perfect engine factory we have made a complete insperious considerable of the provider of the providerable of the providerable

C. S. Judson Co. Ltd., 181 Market St., Winnipeg, Canada COUPON

C. S. JUDSON COMPANY, LIMITED, WINNIPEG, MAN.
Kindly mail me your free Catalogue of Engines, Grain Grinders and Farm Necessities.
Name
Address Dept. C.T.

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व्यव्यव POULTRY.

Telling the Laying Hens.

By MICHAEL K. BOYER

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▼ O make a success, it is imperative that we know our hens. We must test their abilities. We cannot afford to keep drones.

Therefore, we must adopt some method by which we can determine the good from the bad. Noticing a hen repeatedly upon the nest is not a guarantee that she is about to lay. In using trap nests I have almost daily captured hens on the nest, but no eggs, and their annual records were very low.

Every time a hen cackles when coming out of the laying room is no criterion that she has laid. I believe it was Collingswood who once said, "A cackling hen is either a layer or a liar"—and in using trap nests I have found quite a number of these cacklers to be "liars."

So, prior to the adoption of trap nests, the selection of layers has been more or less guess work. It was said by some writers that "spare and leggy birds are the best layers." This opinion, no doubt, was based upon the fact that the Mediterranean class is built after that fashion.

This view was corroborated by the late Francis A. Mortimer when he said that he found that hens with short legs, chunky bodies, short necks and small heads are, as a rule, indifferent layers. This would seem so from the standpoint that such hens are more of the meat order, but trap nests have told us that during the past few years our chukiest Wyandottes were in the front row of layers.

Felch said the pullets that commence laying earliest in life are the ones to lay the largest number of eggs through life. There is some logic in that, but we cannot always tell our earliest layers if we have no system of trapping them.

Some years ago there was quite a discussion of the so-called "egg-Nearly all these opinions were based on the style of the Leghorn, but some writers differed. For example, one writer said that good layers have a "long, slim body, are broad across the shoulders, are triangular, deep in front, not compact and have legs of good length." Another differed by saying: "Carefully avoid the leggy, high-built, reared-up hen of the game-cock style. It is the short-legged, heavy-set, motherly-looking hen that shells out the eggs." Many references could be given on this

type question, but nearly differ in some particular, but the opposites, quoted above, are fair samples of representations made in the early days.

There is but one sure way of finding out which are our workers: We must catch the hens in the act. Each hen is known by the number on the band or ring that is placed on her leg. Catching the hen in the trap nest, her number is ascertained, and this marked on the egg. Each evening, after the eggs are gathered, these numbers are properly credited on a record blank provided for that purpose. At the end of the year we know for a certainty how many eggs the hen has laid. Not only that, but we also know the size of her egg-whether normal or not-and the color, whether white, brown or tinted.

I do not, however, employ trap nests solely for the purpose of finding out which are my best year-round layers. What I care most to know is which are my best cold-weather layers. I want to know which are the profitable workers during the late fall, winter and early spring-times when eggs bring the best prices. It is not a question with me how many eggs a hen lays in a year, but how much money her product brings. If it is possible to concentrate the bulk of her crop in six months of the year, when prices are high, and induce her to "take it easy" during the warm months, devoting the most of that time to broodiness and molting, I will have stronger and hardier stock, and, consequently, more

In conclusion, let me state, there is but one guaranteed way of determining our profitable layers, and that is by the aid of trap nests, and no poultryman can afford to do without them. It will mean a profit in the crop, and a saving of feed, room and

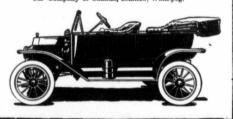
Poultry Pointers

While it is best at all times to have good, sharp grit constantly before the fowls, it is especially important that grit be supplied when feeding whole oats so that the hulls of the oats, which are very tough and unyielding, will be properly ground. With plenty of sharp grit there is no danger attending oat feeding, although the safest rule is to first soak the





Get catalog and particulars from Ford Motor Car Company of Canada, Limited, Winnipeg.



nt in this magazine. Don't forget to say so when with



oats for an hour in water so that they may become more softened.

Green bones are bones fresh from the butcher, with the adhering gristle, meat, etc.

The sooner farmers recognize the fact that poultry culture should be followed along the same lines as dairying-giving food and care to secure results-the sooner will they begin to reap their share of profits and become competitors with practical poultry raisers.

Green bones contain the natural juices as well as the adhering substances, making it superior to the bones that have lain on the ground for a while and lost all the natural juices or animal matter. Green bones are also more soluble and capable of having the mineral matter digested.

There is almost as much difference between different families or strains of each breed, as between the different breeds. Therefore. receive with some allowance the praise or condemnation of any breed.

In Paris markets the eggs are dated, and one pays according to the freshness, so that it is possible to be certain of newly-laid eggs; or, if it is necessary to be economical, yesterday's eggs, or the day's before, are offered at a

There are still some people who imagine they can tell the sex of eggs before they are hatched, or as soon as they are laid. Some tell us that long eggs always hatch females, while others say that such eggs invariably hatch males. When it is considered that each hen shapes her eggs according to the condition of her ovaries, and uniformly lays eggs



"Where are we anyway?"

are fattened chiefly on Indian corn, scalded Indian meal and boiled potatoes, with home grown corn for a change.

"Utility" does not mean "mongrelism" any more than "throughbred" means "Standardbred."

The old way of carrying fowls by their legs, or by the wings, is not practised by the present-day poultrymen. It is a cruel practice. Holding the fowl firmly by the legs and allowing the body to rest on the arm is a much better method.

Fowls are obliged to throw off much of the waste of the body through the lungs. They do not sweat in the same sense that do other animals, but instead breathe several times faster than sweating animals when heated. To keep in good health a hen requires nearly seven times the amount of fresh air in proportion to its size that does a horse.

In parts of England, turkeys of similar shape, the absurdity of the shape theory becomes apparent.

> A fat young Guinea is a gamey and savory table fowl, though the flesh is dark.

> It takes about two weeks to fatten a duck for market.

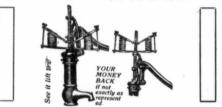
When the Indian Runner duck has reached a marketable age, she has nearly completed her growth, and has little left to do but complete her plumage and begin to lay.

A little granulated charcoal mixed in the soft food will generally check bowel trouble in chicks.

Too much use of cayenne pepper has caused considerable trouble among poultry, and so has overfeeding. The former brings on liver ailments, and the latter leads on to indigestion. fever, gangrene of the intestines, and other fatal disorganizations of the muscular tissues of the

"HERCULES" PUMP GOVERNOR

is the new name for THE ADVANCE PUMP GOVERNOR WHICH WE NOW CONTROL IN WESTERN CANADA



Can. Pat. 144464. Dec. 3rd 1912

Write for our Pump Governor Pamphlet which gives all information, and also a plan to MAKE A LITTLE MONEY without soliciting, collecting or obligation on your part.

The Western Steel and Iron Co. Ltd., Winnipeg, Canada

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Game Heads

Preserved against all decay or injury from climate or insects and mounted with strict fidelity to

NATURE

Send me a trial order of your hunting trophies; game heads or the entire animal, no matter what its size. Birds of every kind.

M ney refunded if I fail to give perfect satisfaction.

One patron (a keen naturalist of world wide experience) says: "I have never seen more artistic or more realistic setting."

FRANK TOSE

PHONE MAIN 5185

JOHN AMBROSE

SUCCESSOR TO

WINNIPEG

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SPARK ARRESTER

One that gets all the sparks with-out clogging or interfering with the draft. Fits any engine. Screens adapted to any fuel.

ACETYLENE GAS HEADLIGHT

Turns night into day. Bracket to fit any make of engine. Throws light 400 feet. Operating expense about lc. per hour.

FLUE CUTTER

You need this tool to get ready for your Spring Plowing. Is adjustable in length and size. Cuts the flue without burring the end. Try it. Estate of E. M. POPE, Watertown, S. Dakota, U. S. A. Send for Catalogue and Price List to

THE MAYTAG COMPANY, LIMITED,

Winnipeg, Man

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Eating Oranges in a Canadian Orchard



would attract everybody. Pown at Fontana, California, only two bours' Fontana, California, only two bours' Carefree men, women and children are enjoying the balmy ocean breeze among the green-leafed trees with their wealth of oranges, grape-fruit and olives. The Fontana Company have this land for you. Five, ten or twenty acres can he bought on payments so light that you get most of them out of the products. Price \$300.00 per acre, nine years to pay. Mr. Wright's five profit of \$350.00 per acre, season 1912. Wouldn't you like a home with an income like that attached? Our Mr. Stephens has spent many dars at Fontana among these groves and can for FREE descriptive folders, booklets, etc. Write him to-day.

New Canada Investment Company, 910 Lindsay Bldg., Winnipeg, Ganada

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INVESTIGATE BEFORE YOU BUY

Don't take our word for it alone but get into touch with hundreds of users and hear from them what



Let them tell you how they

Have Saved Grain

Have Saved Men and Teams

Have Handled their Crop in the Shortest Possible Time Have Saved the Price of the Machine in One Season

is the time to investigate the merits of this machine that stands in the same place as the self-binder in the farmer's implement equipment. Find out what it will do for you, but don't wait until the 1914 crop is ready to cut. Look into it now while you can do it at leisure and write us for all details.

The Stewart Sheaf Loader Co., Ltd.

804 Trust and Loan Building, Winnipeg, Manitoba

Patmore's Promise of a Fine Garden

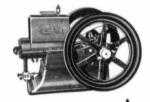
There is no spring literature half so captivating as the seeds-man's catalogue. When we see it with its wealth of embellishment-its fine reproductions of last season's horticultural wonders, we feel that we are again within speaking distance of that most hopeful and cheering portion of all that the four seasons hold out to us. It is now time to sketch out the new plan for the garden patch, to find and secure the best our judgments can direct us to in clean seed that will not disappoint when germination is expected in our

field crops.

The Patmore Nursery Company of Brandon and Saskatoon have surpassed even their own brilliant record with their new catalogue for 1914. That it is a complete encyclopedia for garden and field, of trees and shrubs, etc., goes without saying, but in its plentitude of variety will be found some very striking new ideas, all designed for the beau-tification and profit of the farm and city home. The illustrations are not fanciful drawings, but are taken from actual photographs of real products of their own seed specialities.

Many of these, particularly of the more popular and easily grown flowers and vegetables are

Manitoba Engines Pass Every Test!



When you are thinking of buying an engine, don't forget that the cost of operating is far more important than price. Consider the cost of running, how much for repairs, how much time and attention needed, and ABOVE ALL, "Will it run just as well in midwinter?"

A MANITOBA engine will run as cheaply as any ever built, will cost far less for repairs than an inferior machine, requires very little attention, and ABOVE ALL, will run just as well in zero weather as in July. The MANITOBA is the right kind of engine. It runs smoothly, quietly, has the power, gives no trouble, is economical and makes good generally. Our engine catalogue is yours for the asking and it is worth having because it tells the facts Write for a copy today.

WE MANUFACTURE Gasoline Engines, 11/2 to 25 H. P.; Grain Grinders, 6 to 12 in tron Pumps; Wood Saws, all sizes; Pumping and Power Windmills, 8 to 14 feet

" MADE IN THE WEST FOR WESTERN NEEDS "

MANITOBA ENGINES, LIMITED

Brandon, Man. Saskatoon, Sask.

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

exceptionally A perusal of the work character. is a real pleasure under any circumstances, and to any one with the slightest interest in horticulture and forestry, it cannot fail to afford peculiar delight and real assistance.

The Patmore Nursery people are the oldest horticultural folks in Western Canada, and have certainly found the way to suc-cess in their own line under Western conditions. They have also discovered by long and costly experience what will not do, and are in the very best position to give advice and to guarantee what they offer as far as Nature will permit them to guarantee anything in seed or seedling which has ever been tested on the prairies.

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Speeding the departing year 1913 with its superstition of the "13" and its wars, financial distress and social unrest, Western Canada can still be thankful tor a good crop well saved. The period of scarcity of capital and exhausted credits seems about past and with general soil preparation for our next crop and a fine start made by American winter wheat, the outlook is most promising for a return of greater prosperity and easier credits in 1014

The remarkably mild season to date, saving the Canadian West easily \$10,000,000 in coal expense alone, has resulted in slower trade conditions in textile and some other lines. The grain has been moved very rapidly, and now receipts are running only about one-half those of a year ago and away below the average of the last four years.

It is generally conceded that the percentage of grain left in farmers' hands on both sides of the line is remarkably small, and such grain will dribble along through March, April and June. Winnipeg inspections to December 31, 1913, are relatively very

						1913	1912
						Bushels	Bushels
Wheat						115.749,800	82,753,875
Oats .						43,490,850	24,714,300
						11,788,200	8,429,400
Flax .							8,781,150

The Argentine crop is proving somewhat disappointing in The Interthreshing returns. national Institute of Agriculture, with all the world's figures, finds that the northern hemisphere raised a smaller crop of cereals than in 1912, while the Argentine and Australia, the two chief wheat countries of the southern hemisphere, have larger crops. The wheat in India has suffered greatly from drought.

Foreign crop prospects generally are favorable, but the percentage of Russia's 1913 crop, yet to market, is only a surmise though that country continues a good steady shipper. Australia has a good crop of high grade wheat. The United States winter wheat crop has recently received a good snow covering, and while crop promises well, it is known to be poorly rooted and will be easily injured by hard spring freezing.

Canadian terminal elevator stocks are not unduly large and some all-rail business has been done right along since the close of navigation. Holiday dullness has prevailed lately, but with harder winter weather at hand and light interior stocks, a gradual hardening of the prices of wheat seems due and very likely to come. The period of accu-mulation is over and a good revival of demand seems imminent.

Great Britain has been a steady buyer and likely will continue so Millers report a fair trade, with an increased enquiry as wheat receipts dwindle. It is to be noted that the crop in both the United States and Canada is relatively much more out of the farmers' hands than ever before in the history of the West. Thus the carry-over in both the countries will be small even after the two largest crops ever harvested in each country have been garnered, as the result of a larger consumptive demand. Taking everything into consideration, the holders of wheat should find their property enhance greatly in value before spring, especially if "Free wheat" becomes a reality, giving Western Canada a wider market for her product. Canadian millers will, in that event, become very active buyers of the remainder of our highgrade wheat.

Coarse Grains

The oat market has held quite steady with a little lower tendency as corn declined abroad. But this grain is quite on an export basis and should not work much lower. The consumption of corn and oats has been much under the average everywhere on account of the extreme mild weather. There will shortly be a market to Ontario and Quebec for high grade clean oats for seed purposes.

No action in barley but only a draggy market with poor absorption of offers. Nor is the outlook any more promising. All coarse grains can be more profitably fed on the farm this year. This especially applies to mixed grain, which sells at very heavy discounts and does not bring near its intrinsic value.

Flax

The situation in flax is satisfactory. Pending the readjust-

Now For Better Prices

Grain receipts are running remarkably light. World situation points to higher prices. Farmers, get the most out of your grain by thipping. If we can give you special billing instructions when loading, we can get you excellent premiums now on all grains.

BLACKBURN & MILLS (A. M. Blackburn) (D. K. Mills)

531 Grain Exchange

Winnipeg, Man.

Reference: The Royal Bank of Canada Telephones-Main 46 and Main 3570

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FARMERS!

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 and allow liberal advances on all bills of lading.

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SIMPLICITY - VALUE - SERVICE

in all that is needed in power on the farm is to be found at less cost than in any other engine of equal horse power in the



Fuller & Johnson Type "N" Kerosene Engine

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4, 6, 8 and 10 h.p. Stationary and Portable

This wonderful, compact, easily operated engine is the very last word in internal combustion, power machinery. Made of the best material only, and its structural parts so proportioned and distributed as to give unusual strength and rigidity.

SOLD ON A GUARANTEE TO WORK SUCCESSFULLY ON KEROSENE OR :: :: YOUR MONEY REFUNDED. :: ::

WRITE FOR COMPLETE LITERATURE TO

HENRY RUSTAD, 108 CARLTON BLDG.

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BIBLE HELPS

roest Bible Students may harmonize Scriptures by reading our Booklet Hell." Based on the latest author-The last word on this important to the student word on the important to the student word on the important to the student word on the student to the student word of the student ERNATIONAL BIBLE STUDENTS ASSOCIATION 40 ALIGNOSTIC WINNINGS 40 ALIGNOSTIC WINNINGS 59 Alloway Avent

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But with an improved financial outlook and with fairly light stocks of oil, there should be a gradually improving demand for flax. The linseed exported from the United States to Great Britain for 1913 almost doubled that sent over in 1912. 23

January, '14

ment of business conditions in the United States now that the

currency bill has passed, the flax market has been marking time.

New Threshermen's Organization

What promises to be a powerful organization, with far-reaching effects, was launched on Saturday last, when the threshermen of the Saskatoon district met in the King Edward Hotel and organized the "Canadian Threshermen's Association," with headquarters in Saskatoon.

The meeting was fairly well attended, representatives being present from Dundurn, Zealandia, Delisle, Biggar and other points, along with a liberal number of local threshermen. After a short discussion, it was unanimously decided to organize the threshermen of Saskatchewan, with headquarters at Saskatoon, and with local associations at every town and village throughout the province.

The objects of the association To create a better understanding among threshermen: to assist each other by the exchange of ideas and the imparting of practical information; to advo-cate and obtain legislation governing machinery sales, collections and collection of threshing accounts; to initiate and amend other laws affecting the threshermen, and by organization to control and place the threshing industry on the sound busi-nes basis that its immense capital investment demands.

The association was properly organized, with sound and practical constitution and by-laws; officers were appointed, and an experienced organizer engaged. No effort will be spared to complete the organization of the threshermen of the province in the shortest possible time.

Judging from the determination displayed at this meeting, the old saw, we have heard so often, that 'farmers cannot stick," is about due for a rude shake, for (as plainly expressed at the meeting) it is but equivalent to asserting that "farmers and threshermen have neither brains, intelligence, ability nor loyalty, but that the above virtues are controlled exslusively by dish-washers, retailers, capitalists, etc., who have their unions, etc., etc." Saskatchewan threshermen are not ready to admit this, and are determined to prove otherwise, and when their organization is com-

The World's Best Tire is now "Made in Canada" in this New Million Dollar DOMINION Tire Factory "HE demand across the Line for the "Nobby Tread" Tire keeps four great American factories busy. Its superiority has been clearly demonstrated both there and here in Canada. We have secured the Canadian every manufacturing process has been thoroughly tried out and proven satisfactory. rights to all the patented designs and exclusive processes which have made U.S. "Nobby Treads" the world's best. We have erected It has the same absolutely Non-skid "Nobby Tread" which was worked out in co-operation by 'Domini Tires the big factory you see below, and equipped it with duplicates of all the Morgan & Wright, Hartford, G. &. J. and Continental Tire people. It has the same uniform the special machines used in the Good four great factories of the U.S. Tire Company. bull-dog strength in every part of The product of this Factory, the DOMINION "Nobby Tread", is the carcass, because we build it on the same machines, by the

certainly the best tire that has

Same excitisive processes.

So keen is the demand for DOMINION

"Nobby Treads" that we have had to cut
down some of the largest orders so as to be
along to supply some, at least, to every
dealer in Canada. To avoid delay, get
your order in with your dealer at once. ever been made on Canadian soil, and has no superior in any other country. There is nothing experimental about it-every feature, DOMINION TIRE CO., LIMITED BERLIN, ONTARI Sole Selling Agents Consolidated Rubber Co., Limited

same exclusive processes

plete they will be a power to be reckoned with.

And certainly the time has come to strike out from the shoulder, for conditions surrounding the threshing industry in Western Canada could not well be worse, and threshermen themselves are the only ones that can remedy those conditions.

A further meeting to complete plans for organization and general details will be held in the King Edward Hotel, Saskatoon, at 2 p.m. on Saturday, Jan. 17th.

Director of Traction Engineering Schools

The above illustration is that of Mr. A. C. Campbell, who will have charge of the Indiana School of Traction Engineering at Winnipeg, Regina, Saskatoon and Cal-

These schools have been carried on now for a number of years and have proven to be very popular and at the same time fill a long felt want among the traction engine owning public.

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

Mr. Campbell is a man of wide experience, and under his supervision we are certain that those who attend the Indiana Schools of Traction Engineering in 1914 will get full value for their money.

Traveller (hastily). - "Porter, have I time to kiss my wife good-by?"

"How long have you been married?"

It is only in war that the unexpected admittedly happens. In ove and other domestic calamities there is always a relative who knew it all the time.



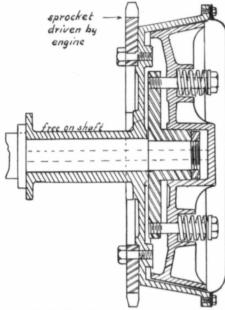


Fig. 172. Form of cone

and when the clutch is released this spring is compressed, thus relieving the pressure on the

The flange bolted to the engine shaft carries a number of studs, on which the first set of discs are loosely threaded by suitable holes drilled near the rim of the large discs. The other set of discs, which are smaller, are supported by a similar flange with studs, which flange is fitted to the square end of the transmission shaft. The large discs are cut out in the center, thus allowing room for the studs which support the smaller set of discs. The inner or smaller discs are small enough to

clutch used on Leader tractor. rest inside of the studs that hold the large discs, thus only the outer rims of the small discs and the inner surfaces of the large discs are in contact. A stout spring slides the flange on the transmission shaft forward, thus engaging the clutch. A clutch of this type generally runs in oil to prevent the cutting and roughen-ing of the discs. When pressure is put on by the spring, the oil is gradually squeezed out from between the discs, but until the oil is all squeezed out more or less slipping will occur. With this style of clutch, therefore, the load is not suddenly applied because a certain amount of slippage is provided for

Course in Gas Engineering

Conducted by PROF, W. J. GILMORE

स्यायाय

I F ONE were to ask a great many gas engine what in their opinion was the one thing most characteristic of gas engines which had caused them to become so rapidly adopted as a source of power, the probable answer would be, "The fact that gas and gasoline en-gines require so little attention." This is apt to be a stumblingblock for the person who buys an engine without having had previous experience or knowledge of such engines. It is being continually impressed on his mind, both by the salesman and the catalogues he receives, that the gas engine requires "no attention whatever." A few of the salesmen who are not less zealous than the others to secure the order, but who are looking forward to the future, may state in an indefinite way that, while gas engines need some attention, the time involved does not really amount to much. The result is that the inexperienced purchaser often is sorely disappointed. He has been under the impression that all that was necessary was to start the engine, after filling the oil-cups, and then let it alone until he wishes to shut it down.

And yet not all this misunderstanding is the fault of the salesman or the manufacturer. In the first place, one should remember

the results are likely to be. And if the simplest form of machines require attention occasionally, how can we expect a gas engine (which, of necessity, must be complicated in comparison to a great many kinds of machines) to run without attention? And yet it is undoubtedly true that many engines do run without being cared for at all. The result, however, is that they do not last more than a year or two at best, and then they must be replaced.

If there is one thing that is necessary for the successful operation of a gas engine it is oil. While many gas engine operators seem to recognize this, they

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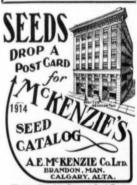
ing some attention, and the better and more intelligently the

attention is given it, the better

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fail to bear in mind that oil of a proper quality is needed, and that it is needed in certain places and not needed in others. The operator is apt to become careless and let oil get all over the engine and catch and hold dirt and this gives the engine a very unpleasant appearance, if nothing else. But there are a number of engines which have parts where oil is not intended to go and if gets there trouble results. Further, oil will get in around working parts and after getting gummed up with dirt, will stick the parts and cause them to operate slowly and stiffly, so that they get out of time. It is a good plan to put some gasoline in a squirt can and squirt some of it on to such parts every week or so. This cleans off the gummy oil and dirt, and after letting the engine run a while with the gasoline, oil can be put on such parts as need it.

The engineer should not fail to wipe his engine off at least once day. As one writer says, he had better wipe up the engine after shutting down in the evening, for he may not have time to do it in the morning. Then, too, in this way the oil is not allowed to remain on the paint, etc., over night. The writer konws of at least one engine which is cleaned up both at noon and at night, as soon as it is shut down. Although the engine has been in use over a year and a half, the paint is bright and fresh as ever. This may not appear to be of any particular advantage, but if the owner tried to sell his engine second hand, its appearance would be worth much more than what it has cost him to keep it

The lubrication of the cylinder, however, is one point which many gas engine users seem to attend to with the utmost care, and yet with dire results. Many operators realize that the oiling at this point is a matter of great importance, and they therefore proceed to get the best steam engine cylinder oil at the very highest price. Now, while their intentions are good, their deeds are not. Steam engine cylinder oil is intended to lubricate the

cylinder under conditions which are very different from those under which oil in the gas engine cylinder must operate. In the steam engine there is more or less moisture, and the temperature is fairly high. But in a gas engine, especially after it has been running for several hours. the heat is exceedingly dry and intense, much more so than in a steam engine. The gas engine cylinder oil must, therefore, be able to withstand a very high temperature, and lubricate under very dry conditions. A good grade of gas engine cylinder oil which has a high flashing-point can be secured for less money than the best steam engine cylinder oil, and answers the purpose better. Any gas engine manufacturer can furnish such an oil on direct inquiries where to secure it.

But a supply of the proper kind of oil is not all that is necessary. It must be properly applied or fed to the cylinder. It is usual for engines to be supplied with lubricators which hold enough oil for a run of about ten or twelve hours, and in such cases the feed can be set so that one cupful will last about that length of time. Too little oil, of course, causes the piston and cylinder to become dry, and if the lack of oil is continued they will begin to cut and heat. If this condition still continues, the piston may expand so as to stick in the cylinder. I have known of several instances where an engineer forgot to open his lubricator on starting the engine and did not notice it until the engine stopped from the piston sticking in the cylinder. This, of course, cuts the cylinder up badly, and soon necessitates reboring of the cylinder and fitting a new piston.

On the other hand, it is more usual to meet cases where too much cylinder oil is supplied, rather than too little. In their endeavor to avoid the one, many engineers 'fall into the other habit. The result is not so disastrous to the engine itself as it is to the successful operation of it. If too much oil is fed, the surplus over that which is required for lubrication is forced

back into the combustion-space. Here it is partly burned up by the intenes heat and flame, and part of it is blown out with the exhaust gases. That which remains becomes gummy and deposits in numerous parts of the cylinder. It falls on the igniter points and prevents a proper spark. It collects around the piston rings and sticks them fast in their grooves, so that they fail to spring out and hold the com-pression. The oil which is thrown out with the exhaust clogs up the auxiliary exhaust ports, if there are any. I have known these ports to be clogged so completely that a casual examination of the inside of the cylinder failed to show where they were, and it was only by taking a hammer chisel that they could be found and cleaned out. The burned oil which passes out through the exhaust-valve sticks on the valve stem and seat and causes the valve to work slowly and perhaps not seat entirely. This means frequent regrinding and cleaning of the valve. Then, too, the exhaust-pipe becomes partially clogged up with the grease. The muffler plates also become clogged up with the dirt which is thrown out, and so completely does this occur that it almost prevents the escape of the gases. All these things cause a heavy back pressure in the cylinder and decrease the power developed. In some cases the back pressure of burned gases is so great that the gases contaminate incoming charges so that they fail to ignite.



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How Interest Rates may be Reduced

By J. H. Worst, Pres. N.D. Agricultural College

THERE is no question that if farmers were to engage more largely in dairying and raising livestock, and were to farm their land more scientifically, the rates of interest they are required to pay the banks would be materially lowered. Why, do you ask? Because certainty of receiving prompt payment when principal and interest are due, to a very large extent, determines the rate of interest.

It is a well-known fact, judging from the manner in which much of our farming is done, that there is but little assurance of profitable crops, should the season prove unfavorable—and such seasons will come—hence the banker makes a rate that takes into account the probabilities of poor crops when seasons are bad—and then some. Why not? You would do the same.

As a matter of fact, there is not much charity in matters of a purely business character. Even should some new banking system be devised, a banking system calculated to benefit the farmer by furnishing him with cheap money, vet money must be safe before it will become cheap. Good farming offers reasonable assurance of profitable crops. If all farmers were good farmers, the crops would be more likely to prove profitable than where many of them are careless, or rather where they undertake to farm so many acres that failure or a very low yield per acre is likely to be the result. In other words, if all the land under cultivation were well tilled and otherwise properly managed, the assurance of profitable crops almost every year would cause interest rates to gravitate toward a lower level.

On the other hand, if farmers generally were to engage quite generously in raising livestock-a department of agriculture not readily menaced by such calamities as hot winds, hail storms, early or late frosts, etc., the assurance of a fair annual profit for the farmer would tend to lower the rates of interest. It is true that livestock must have feed and that the elements just enumerated exert a baneful influence on corn for feed or silage, or on meadows and pastures; nevertheless, the actual losses are never so great nor do the elements injure them in the same degree. Moreover, at the very worst the live stock can

*HERE is no question that if farmers were to engage more largely in dairying raising livestock, and were to not their land more scientifically, rates of interest they are rered to pay the banks would be wheat, by a mile.

Cheap money, therefore, depends more upon the assurance of profitable crops than upon the abundance of money. The surest crop for a farmer is livestock, and the surest and most profitable division of livestock is dairying. If practically every patronized a creamery, had an eve for good dairy stock, and gratified his eye's desire, and otherwise managed his dairy herd on business lines, the rate of interest would not be worth bothering about, and largely because we would have changed our system of farm management from one of considerable uncertainty to one of almost absolute certainty.

Another great advantage would accrue to the farmer from the fact that his ability to pay cash, or at least to pay promptly, would enable him to purchase his supplies much cheaper than where the merchant, like the banker, must take a chance at ever getting his pay.

Many of the ills we complain of can be cured thus by our own foresight and sagacity. The wide-awake farmer will eliminate the element of chance as far as practicable by substituting reasonably certain things for things uncertain. For a steady and almost sure income, dairying doubtless stands first, among farm enterprises. It requires good judgment and steady work, but without intelligent labor little can be accomplished in any pursuit.

Other kinds of livestock also are remunerative and afford a fairly certain income. As a matter of fact livestock of any kind is more certain to produce regular profits than the cultivation of grain. Naturally the two should go together. It would enable the husbandman to distribute his work throughout the year, with fair assurance of profitable income together with byproducts that would replenish the soil with fertility taken from it by the cereal crop. It would also enable a farmer to convert many things that otherwise would be wasted, into ready cash.

By all means establish a system of farm management that will

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"Boys on the Farm"

"The practice of the well-todo farmer who moves to town to 'educate his children' is an old story and is fraught with many a hidden tragedy, to say nothing of the impoverishment of the land and the social order left behind," writes W. A. McKeever, of the Kansas Agricultural College, in his book, "Boys on the Farm." There is much good reading in this book and every farmer will enjoy it whether or not he is in sympathy with the expressed view. He says: "Why cannot the intelligent farmer remain on the home place and join a movement having for its purpose that of making the neighborhood a more desirable place of human habitation?

"One of the dullest places in the world is the country town which has been filled up with retired farmers. These are usually men who came into the place for the purpose of getting all the possible advantages at the lowest possible cost. In the typical case, the new city dweller of this class secures a very good residence, and that often, if possible, just outside the city limits in order to avoid local taxes. He takes little or no interest in the town's municipal affairs and votes against nearly all improvements. He keeps his own cow, horse, chickens and garden, and brings extra supplies in from the farm. Gradually he takes on a few city ways. That is, he uses less home produce an dbuys more at the stores. But for want of stimulating employment he gradually grows stouter and mentally more stupid—and indication that he is dying at the top and that he is soon to be cut down. Really the retired farmer is a nuisance to a town and the town is a bore to him.

"But what of the children whom he brought in to 'educate'? They learn rapidly, soon take on city manners. The natural restraints from evil conduct, which the farm home furnished is now wanting. The blare and bluster of the town both excite and delight them, while the parents have positively no rules or standards by which to govern and direct their young in the new situation. All the boys and girls need to do in order to gain a parental consent to go out at night is to declare that 'everybody is going' or that they are 'expected' to be there, and the thing is settled. Thus the young ruralists newly come to town go dancing and prancing off into a veritable world of sweet dreams and delights-spoiled forever for any service that they might have rendered in building up the country community-and finally destined to become mere cogs in the ever grinding wheels of the same city.

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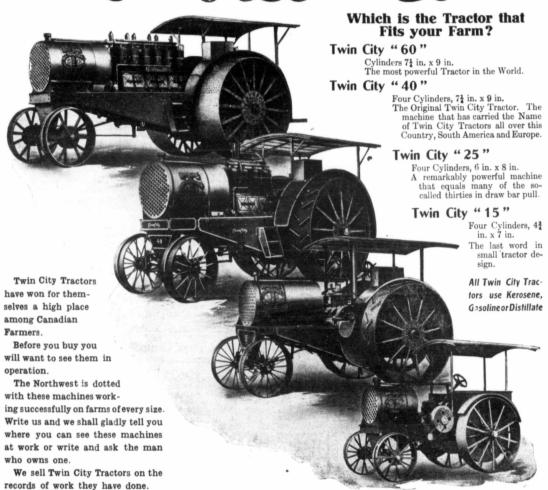
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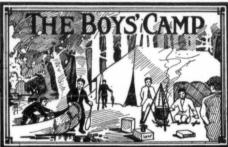
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Girls' Cozy Corner

CLOUD THOUGHTS (From Primary Education)

The clouds in the blue frosty air Keep always one side toward the sun, So touched with his gold, they cannot but hold

The happiest thoughts-every one!

Such beautiful, beautiful thoughts, Formed high in the blue of the air, Each joyous and sweet, with wings white and fleet, Each tender and pure as a prayer.

Then, touched by the wand of the wind, These cloud-thoughts, like fairies, escape, And floating to earth, all motion and

In shining white snowflakes take shape

They've captured the joy of the sun, The purity, too, of the skies, So, a splendor of light and a wonder of

To transform the earth, now, each tries!

To transform the earth, now, each tries!

Dear Girls in the Cozy Corner:

To every one of my girls I wish a Happy Year full of good times. Please read the poem "Cloud Thoughts" carefully and then learn it. Did you ever realize that the clouds have always one side towards the sun? They always have one bright side. The corner of the home you live in needs Fairies like the Snow-tlake Fairies—to make it glad and pure and bright. I like helpful human Fairies. Now let us divide every month of this year into four weeks. The first week of every month let every little girl be a fairy of Good Wishes, the second week a fairy of Good Wishes, the second week a fairy of Good Wishes, the second week a fairy of lepfulness; the third a fairy of joy or beauty; and the fourth of purity whiteness and cleanliness. Then what lovely fairies we shall have in our coxy corner at the end of the year! Might we not have a book of Fairy Tales told by our girls, including the deeds they have done during the year! Let us begin this month. To the girl who sends in before Feb. Ist the best letter describing the most helpful thing she has accomplished, I will send a book as a prize. before Feb. 1st the best letter describing the most helpful thing she has accom-plished, I will send a book as a prize. Let me see how many tales we shall have for our Fairy Book this month. Writing a Fairy Book!—What a splendid idea for

Sincerely, Cousin Doris.

Chaplin, Sask., Nov. 25, 1913.

Dear Cousin Doris:
This is my first letter to your club. have been a silent reader for quite a while. I am 15 years old. I don't go to school now. We live in a little town. My father runs a butcher shop, but I tend to it most of the time, I like to live on the farm better than in town. I have three sixters and three brothers. We on the farm better than in town. I have three sisters and three brothers. We have two cats and one dog. We got our dog when he was a pup and he is five years old now. I have a cap I got dirty and I washed it and it stretched so that I can't wear it any more. Can anyone tell me how I can get it smaller? My letter is getting pretty long, so I will stop, wishing your club every success. Sarah Banman

our Cozy Corner!

Parry, Sask., Dec. 5th, 1913.

Parry, Sask.,
Dec. 5th, 1913.
Dear Cousin Doris:
I thought I would drop you a letter and tell the girls some news.
How are all the girls and boys. I am just fine and I hope all the members are the same. Well, we are getting near Xmas now. I guess everybody is happy when St. Nicholas comes. For he is a good old man, and everybody knows him. He is very kind to the little children. Well, there is only a little bit of snow on the ground, and it is just like spring here; and I feel just like we were getting near Easter instead of Xmas, because it is not very cold. I guess we are going to an Xmas tree at our town, Parry; for we had one last year, and we all had a good time. I do not know much more news to tell the dear members this time, but I would just drop Cousin Doris a letter, so all the members could see that I am all right. We are going to have a dance to-night, and they are going to sell boxes, and I don't know yet if I should go or not; it is the only thing we see here, for there is no other fun. Do any of the members think it is a harm to dance?
Well. I think I will close, with best

well, I think I will close, with best Christmas wishes to all the members and to Cousin Doris. I will now close, so farewell.

Your dear c ousin Hilga Malm. (age 14 years).

> Rosenort, Man Sept. 19th, 1913.

Dear Cousin Doris:

Dear Cousin Doris:

This is my second letter to your club. My father takes the Canadian Thresherman and Farmer; we think it is the best paper of all papers we have; I like to read the letters very much. School began out here the 8th of September. Our teacher's name is Miss Camp. We have one farm of land. Daddy said one farm one year say. We tember. Our teacher's name is Miss Camp. We have one farm of land. Daddy sold one farm one year ago. We have a machine, and my two brothers are threshing with it, and daddy is taking care of the farm at home. We have five working horses, one driver, two colts, nine head of cattle, two hundred and fifty chickens, two old pigs and six young ones.

oung ones. In the last Canadian Thresherman and In the last Canadian Thresherman and Farmer there were four letters from girls and two letters from boys. Now girls come and let us all write because I don't like to read only six letters in all. I would like to correspond with anybody if they would write first. Hoping this letter will jump the W.P.B. I am thirteen years old. I must close for this time. Wishing the club every success.

From a cousin.

From a cousin, Jennie Hoffman.

Poplar Grove, Sask., October 19th, 1913.

Popular orvet, saak...

Dear Cousin Doris:
 This is my first letter to your club. I am nine years old; I hope to see my letter in print.
 Let me tell you about a storm. Once when we lived upon our other farm it began to lighten and thunder, at about four o'clock one afternoon. It rained at first and then it began to hail. The kitchen window blew open and the hail came in. The storm grew still more fierce and mother and daddy were afraid of a cyclone coming, and so put we

children down in the cellar. But the cyclone did not come after all. After it had cleared off again we all went out to look at the grain, it was not hurt very much—we were very glad.
Well, I will close, with best wishes to all the members of the club.

he club. Yours truly, Marks.

Estevan, Sask., October 15th, 1913.

Dear Cousin Doris:

Dear Cousin Doris:

I have not written to the Girls' Cozy
Corner for a long time, so I thought I
would write again. The last time I
wrote to the Cozy Corner I was in
Stoughton, but we moved to Estevan.

I am in senior grade IV at school;
my teacher's name is Miss Kee. I like
in town better than on the farm
because it is closer to school. In the
summer we have two months holidays,
July and August.
We have one cow and fifteen hens and
twenty-one chickens.
I was ten years old on the 13th of
October. I guess winter will soon be
here again.
Papa is threshing at Yellowgrass; he

here again.

Papa is threshing at Yellowgrass; he thinks there are about three more weeks threshing where he is.

Well, I must close now, wishing Cousin Doris and the members success, as it is habitineed if

it is bedtime and I must go to bed.

Edna Dodge.

Canadian Boys' Camp

Snowflake Wishes
Each little snowflake floating by
Out of the heart of the winter sky;
Is a little wish on wings so true:
A Happy New Year wish for you.

The New Year—A Pedlar (From Primary Education) The jolly New Year Comes showing his wares— Good wishes he bears, Bright dreams, all in pairs.

"Oh, what will you have?" He calls, brisk and clear, "A hope or a fear?"
A smile or a tear?"

"Oh, what will you have?"
He calls, blithe and gay;
"I've work and i've play,
Enough for each day."

"Oh, what will you have?"
Days golden with cheer?
Days rainy and drear—
All days are so dear!"

"Put purses away,"

He laughs in great glee;
"Just between you and me,
My wares are all free."

Dear Boys of the Camp:
I am offering a prayer of good wishes
for every boy who visits the Canadian
Boys' Camp. The girls are going to
write a book of fairy tales this year. It
will be published in the Cozy Corner
every month. Now I want every boy who
reads this corner to write a letter describing the most interesting day of his
life. It may be an experience in hunt-

ing, threshing or helping father. Whatever it is tell us about it. Let us see who shall publish the best book—the Boys' Camp or the Girls' Cozy Corner. I will send a prize book every month to the boy who sends in the best letter during the month.

Sincerely, Cousin Doris.

Boys' Prize Letter

Prairie Grove Farm Pheasant Forks, Sask., October 21st, 1913.

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Dear Campers:

I thought I would call and spend the ght with you. My father has taken the Canadian

night with you.

My father has taken the Canadian Thresherman and Farmer for about three years, and we all like it.

I was twelve years old on the 11th of October, 1913. I go to school some of the time, but I have to stay home now, because my father is away threshing.

My grandfather and one of our neighbors and my father have a threshing out-fit between them; the engine is a 15-30 gasoline-kerosene, and the separator, I have forgotten the size of it, but it is a pretty good outfit.

For pets, I have four cats and one kitten; the kitten's name is Tossle-tail, and the cats' names are Floss, John, Negro and Buck. Also I have a dog, named Buzzer, and a colt named Jess.

My father has ten horses and three colts, sight head of cettle four pirs and some My father has ten horses and three colts,

ay inter has ten horses and three coits, eight head of cattle, four pigs and somewhere near twenty hens.

We have a little 1½ horse power engine for washing, crushing oats, wheat, barley and flax, also for fanning grain.

I have two brothers and three sisters; two of my sisters go to school whenever they can.

How many of you Campers like to hear adventures; I do for one, and had one, but not a very big one. One even-ing last summer I went out shooting with one, but not a very big one. One evening last summer I went out shooting with my 22 long rifle, and my eldest brother came with me. We walked about a half a mile and sat down to rest a while, when we heard a noise in the green grain. I jumped up and got my rifle to my shoulder ready; the noise came closer and closer; I said to my brother, "A badger," and sure enough a young badger, followed by his three brothers, came out of the grain straight for us, and Albert, my brother, yelled, "Oh, Bill, they'll eat us up." At this the badgers started right at us, growling and snarling. I said, "I'll give you socks if you come a bit closer," but they took no heed, so I fired and the first one, but did not kill him, for he began to dig a hole in the ground, and the second one followed it, still the other two came closer, so I fired two shots and they fell over just stunned (for "badger is a hard animal to kill if you do not hit them on the end of the nose). Then I fired about six shots into their heads to make sure; then we took them home. And such was the evening's sport.

Now boys get to work and write a few letters. Do you bear what the crifis

Now boys get to work and write a few letters. Do you hear what the girls are saying? "The boys are pretty slow." Aren't you ashamed. Now, just let's all write a letter next month.



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ly, isin Doris.

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Farm, ks, Sask., 21st, 1913.

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ne girls y slow." let's all

ke sure; uch was

I would like to correspond with any of the members of my own age.

Hoping my letter will not lose its life in the fight with the W.P.B., I will close, wishing the club every success.

I remain Wiliam Stacey.

Ravine Bank, Sask.,

Ravine Bank, Sask.,

Dear Boys' Camp:
This is my third letter to your camp.
I was very glad to see my last letter in
print, and hope to see this one in print.
I will tell you a story that I saw in a
book one day. A Jewish boy went into
a delicatessen store the other evening
and said to the proprietor: "How much
are three pounds of sausages at 60c. a
pound, four pounds of butter at 30c. a
pound, four pounds of corned beef at 40c. pound, four pounds of butter at 30c. a pound, five pounds of corned beef at 40c. a pound?" "How much is it," the pro-prietor said; "that will be five dollars; do you want to take them with you?" And the boy told him: "No, dats my

And the boy tool nin: "No, dats my arithmetic lesson for to-morrow."

I will close with a riddle: Can the sardine box, no but the tomato can.

Yours truly,

R. D. Underwood.

What I saw and Learned at the Exhibition

(Portion of First Prize Essay awarded to boys who were the Guests of the Winnipeg Exhibition Association, 1913-Won by Robert Coulter, (age 16) Swan River, Man.)

left Swan River for Winnipeg on Monday, July 7th, at about 5 o'clock in the morning and arrived at my destination at about 5.30 in the evening. I got on a street car at the depot and it was not very long before I arrived at the King Edward School. This school is a fine building situated (close to the Exhibition Grounds) on Selkirk Avenue.

The Fair started on Tuesday morning, July 8th, and that day we listened to a lecture by Prof. Chase. He said that in the motor competition, the engine which did the greatest amount of work, with the least fuel in an hour won the prize. He also said that energy and power like other things must have a unit of measure. This unit is horse power. Horse power is the work required to raise 33,000 lbs. one foot per minute. He told us how the amount of work done by the engine was found out and after that was found out it would be an easy matter to weigh the fuel used.



On Wednesday morning, I looked over the machinery exhibit outside of the buildings. This included motor truck, plowing outfits, scales, threshing outfits, etc. The J. I. Case Co. had a splendid exhibit of threshing machinery. It was a J. I. Case engine which won first prize in the Motor Competition. Threshers were also shown by the Red River Special, Waterloo, Huber, Avery, Great Minneapolis Line, Sawyer-Massey and Geo. White & Sons companies.

The J. I. Case Co., showed the high climbing abilities of their engines, by having one climb a hill inclined at an angle of about 40 degrees. The Hackney Auto Plow was shown. It has the plow attached under the machine. The hind wheel of the auto goes over the furrow and packs the sod down, so that it will not fall back after the plows have gone by. The Canadian Fairbanks-Morse Co., showed an exhibit of their scales. At the New Agricultural College

At 9 o'clock we had a lecture by Prof. Rutherford, who for a number of years was chief veterinary for Canada. He said that there was not a better trade than farming scientifically. People in commercial life have to study hard in school for a long time before they can obtain their position, and then 90 per cent of them fail afterwards, while not near as large a percentage of farmers fail although hardly any of them get their knowledge from school. He said that all the cities and railways, and in fact everything in commercial life depends on the farmer for its support. He also stated that the farmer was the most independent person in the world.

After this Prof. Jones gave a lecture. He gave us the following verse of poetry:

The farmer trade is one of work He's partner with the sun and eart He's partner with the sky and rain, And no one loses for his gain. Men may rise and men may fall, But the farmer needs must feed them all."

He gave a short talk on Clyde horses, pointing out their most important characteristics. skin between the hock and fetlock should be like the paper on the wall; that is, there should not be any meat between the skin and bone. The ankle should be sloping. If the ankles were straight, the horse would get a very heavy jar when the horse stepped out on

Prof. Jones also said a few words on Percheron horses. This horse comes from France. In early times it used to be used as a stage horse. The Percheron is about the same size as the Clyde and black or grey in color. The stallions of this breed are always worked in France. It is noted for

its good disposition. The Percheron should not have much hair on the legs. The feet are large. The ankles are slopy and they should be rounded at the tail head.

Prof. Jones then called for a horse, so we could see what a real good horse loked like. "Rosene" a splendid Percheron mare owned by the Upper Bros., was selected. This mare took first prize at the Chicago International Fair. against 84 entries. Also second prize at the World's Fair. She was champion at the Iowa State Fair, Minnesota State Fair, North Dakota State Fair and the Calgary Fair held this year. She is one of the three best Percheron horses on the American Continent. To judge a horse you should always start at the head. First look at the eyes to see whether the horse is blind, then notice the ears; they should be erect; the nostrils should be open not too large nor yet too small.

The horse should be trotted about five hundred yards for a test of its wind. You can tell at the time she is finished trotting whether her wind is good or not. by noticing the way she breathed. Next open the mouth to see if her teeth meet. A horse has difficulty in cropping grass, if its top and bottom teeth do not meet. Some times there are little lumps at the back of the horses mouth. These are very sore and often prevent her from eating. A person can find out if a horse is effected in this way by holding her tongue between her teeth with one hand, while you feel the inside of her mouth with the other. The horse should not be thick at the jaws.

The neck should be stylish and the head should be held up. The shoulders should be sloping. Sloping shoulders mean sloping ankles. The breasts should be wide and well filled, and the legs should be set well under the body. There should not be any fat at the top of the front leg. This is all muscle in a good horse. The wall of the hoof should be about threequarters of an inch from the sole. The size of the foot is always judged from the size of the sole. A horse with a good constitution has a deep chest.

A draft horse should have a good middle, because if it is expected to work much, it must eat lots of feed. A balky, prancing horse generally has a light middle and these do not live as long as the others. A horse with a good middle will also stand sickness better than a horse with a light one. The muscle used against the collar is found right along the front of the back. Horses with poor kidneys are generally light in muscle over the loins.

When holding a horse to be judged, it should not be held so French Doll



riting advertisers

that the hind legs jut out behind the animal. His legs should be directly underneath him. Brood mares have a small hollow at the back of the ribs. This concluded Prof. Jones lecture.

We then listened to a lecture by Prof. Curtis. He said that the well fed nations were the greatest powers of the earth, and it was just the same in regard to cattle. The farmer who is a good feeder always has the best stock.

The city people are always more or less uncertain where to obtain their food, and as the British are called the beef eaters of the world, there should never be any trouble to market all the cattle one could raise. A farmer should know a good animal and also know how to raise it, before he should start to make a business of raising cattle. Beef cattle should always be fat, while dairy cattle should be rough and angular. The udders of dairy cattle should not carry too much flesh, but they should be a good size. The teats should be close together.

To be continued next month



Mention this magazine when writing advertisers,



Comans' Pepartment

A HOUSEHOLD FORUM FOR THE DISCUSSION OF EVERYTHING THAT PERTAINS TO THE HOME



MY MOTHER'S GARDEN

Her heart was like her garden, Old-fashioned, quaint and sweet, A wealth of buds and blossoms Hid in a still retreat. Sweet violets of sympathy Were always opening there,
And lilies white and pure enclosed,
Each one a whispered prayer.

Forget-me-nots there lingered To late perfection brought,
And there bloomed purple pansies
In many a tender thought,
There hope's first snowdrops took deep

And flowered because they must, There love's own roses reached toward heaven On trellises of trust.

And in that quiet garden,
The garden of her heart,
Song-birds built nests, and caroled
Their songs of cheer apart.
And from it still floats back to us,
O'ercoming sin and strife,
Sweet as the breath of roses blown,
The fragrance of her life. -Alice E. Allen.

Home Economics

Kindly send all communications and reports to 983 Grosvenor Avenue, Win

nipeg.
Miss E. M. Baldwin wrote the article entitled "Women in the Business World"
—published in the November number of

published in the November number of our magazine.

Mrs. Price, a member of the H.E.S. provincial board, sent me a paper entitled "The Winter's Supply of Vegetables." Unfortunately the paper did not reach me. This is a subject that is of great interest to our home makers. Mrs. Price, in a letter to me, states this fact: "You remember in February at the convention, farmers and their wives were recommended to grow their own vegetables and not have to buy, as elicited by several illustrations. It has struck me forcibly since our meeting that, perhaps, much of the trouble lies, not so onch in the lack of production as lack of knowledge of the necessary conditions of preservation, without which any amount of production will be worse than useless."

useless."
Mrs. Price has made a good point and I hope our members will send us their experience in caring for vegetables. I remember that on the old farm of my girlhood, vegetables such as cabbage, turnips and carrots were placed in a cave dug in the ground for them, and we had these vegetables all winter.
Mrs. Dayton, provincial president of the H.E.S., has sent a review of her visit to the different socities. I am sure our members will be very much interested in it.

it.

The Manitou society had a most unique and splendid scheme for raising money. Mrs. Brown, the former president of the Manitou society, called on me while in the city. During our conversation she very modestly mentioned it and I insisted on a report of it for this department.

The paper entitled "Our Woods" should be read by every boy and girl in Western Canada, as well as by our older readers. It is very instructive. In a recent street parade a beautiful horse praneed ahead of a stagering drunken man. The question was: "Which is the beast?"

THOUSANDS OF LIVES

THOUSANDS OF LIVES

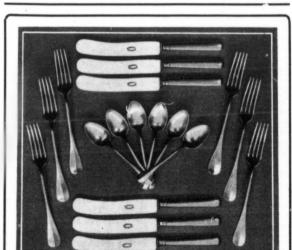
Women are abandoning the use of
birds and plumage for the decoration of
hats, according to Col. Joseph H. Acklen,
chief warden of the United States, to
enforce the recently enacted migratory
bird protection have

bird protection law.

This tendency will be welcomed with joy by all wise and humane women. There are plenty of beautiful things to use for trimmings, without encourage the cruelty and waste involved in destruction of bird life.

Men are apt to criticize women severely for the wearing of plumage. To be sure, it is men who kill the birds, but they are sacrificed for women's pleasure -or, rather, to enable men to make —or, rather, to enable men to make money by giving women pleasure—and without the demand, there would be no supply. Hence women cannot escape their share of responsibility. But when some men cite this slaughter of birds as a proof of women's unfitness to vote, they use an absurd argument, and one inviting a terrible retort. Women are responsible for the lives of thousands of birds. killed for their pleasure? Yes. birds, killed for their pleasure? Yes, It is too true. And who is responsible for the lives of the 60,000 women that for the lives of the 00,000 volume.

die in the United States every year in
the white slave traffic? consequence of the white slave traffer whose pleasure are they killed?



A SPECIAL OFFER

6 KNIVES 6 FORKS 6 SPOONS

The above illustration is an exact photograph of our offer. The forks are of the regular dinner size, and the spoons are generous teaspoons, and both are made of a solid metal superior to white metal and cannot wear in spots and always keeps bright and shiny. The knives are also dinner size and have genuine steel blades and a convenient sized handle.

OUR OFFER. Send us in your renewal subscription and two new subscriptions, together with your remittance for three dollars for same and we will send you a complete 18-piece set as illustrated above FREE AND PREPAID to your own post office. They won't last long. Send in your subscriptions right away and secure a set.

Cuttery Dept. E. H. Heath Co., Ltd., Winnipeg

VIRDEN

The annual meeting of the Virden Home Economics Society was held on the last Saturday in November, about 70

last Saturday in November, about 70 members being present.

The reports from the work the society is interested in being read, showed a very successful year. The reading and rest room report (which, with the assistance of the W.C.Y.N., the society is working for) was most encouraging. During the year 1,500 women, either before or after a long drive, had a cup of tea, and about double that number used the rooms to warm themselves, tidy up or rest while waiting for husbands; much appreciation is expressed by the country members waiting for husbands; much apprecia-tion is expressed by the country members for this convenience. In connection with the reading room, we have also a magazine exchange. Great encouragement is given to the committee in charge, by grants from the various councils tl
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committee in charge, by grants from the various councils.

Socials and entertainments, which help to bring the people of the town and country together, are also held for the support of this work. The expense of running the rooms during the year was over \$700.

This society is also interested in the beautifying of our cemetery, and each year we pay the caretaker, collecting the money from the plot owners. The amount paid out this year was \$235.

We also collected \$1.25 for Ninette

We also collected \$1.25 for Ninette

We also Sanitarium. Splendid papers, good addresses and attendances were maintained throughout the year. The membership for this year

is 103.

Dear Mrs. Hamilton: I thought a short description of my visit to the following societies might be of interest and, perhaps, do something toward encouraging the workers of others.

This visit was one of great pleasure to me, and I am more than ever convinced of the splendid type of women who are giving of themselves to this work.

work.

who are giving of themselves to this work.

The first society visited was Hamiota, the home of our provincial vice-president, who, with some of the most intelligent women I have met, are doing good work. This is the only society of the province that I have heard of successfully conducting a travel club, holding an extra meeting a month to do so. They are also greatly interested in all that pertains to child welfare, labor saving devices for the home, and many of the members have done pioneer work in assisting in the building of a beautiful new cottage hospital, the matron of which told me that out of twenty-seven cases recently treated, nineteen of them were maternity, thus helping to solve the problem of the proper care of the mothers during a most critical time. This hospital is most comfortably and tastefully fitted up, the different men's societies of the place helping. Our own provincial vice-president has furnished a ward in memory of an only daughter, who died in infancy.

My next point was Minnedosa, where Mrs. Thomas Cooper (nee Margaret Bennett), a splendid example of the educated Englishwoman, making good in this country, is president. Before Haverigal College was started she, with an older sister, organized and conducted a young ladies school in Winnipeg, at which many of our cities' younger mothers were educated, and whose lives must have been greatly benefited by coming under the influence of such a woman. This society has converted what was once a shed into a most comfortable reat.

a shed into a most comfortable rest room, where they hold their meetings

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and are greatly interested in the larger scope of the work. From Minnedosa I proceeded to Birtle,

where the society is planning, if possible, the opening of rooms in the nature of a club for young men, recognizing the necessity for recreation under the best influences, and judging by the women of Birtle, I feel sure that any object they undertake will be successfully carried

I was most hospitably entertained at the home of the late William Patterson, whose young widow, a member of the society, is managing a 1,300-acre farm, society, is managing a 1,300-acre tarm, carrying on mixed farming and rotation of crops. This farm is most beautifully situated and equipped; a farm home of the highest type, whose spaciousness and good taste would do credit to a

queen.

From here I travelled to Neepawa, and though on account of the annual meeting the previous week I was unable to have a meeting, yet I met the directors, who are most earnest, broad minded women, working for the greater benefit of the home and community, and are planning, if possible, to open a market twice a week where the women who have to sell may get in direct touch with those who have to buy; in this way both may be benefited, and I am sure that many other societies will follow their lead, as during the summer months much garden stuff goes to waste that our town sisters would be glad to have. It would be also an incentive to the producing of better butter and fresh eggs, and many a country sister could add to her pin money in this way.

From Neepawa to Swan River, about 180 miles, to the youngest society of the province, that, as yet, is feeling its way, but judging by the ability of the officers, I feel sure they will do much for the advancement of the homes and of their pretty town and country. The president of this society has had domestic science From here I travelled to Neepawa, and

advancement of the homes and of their pretty town and country. The president of this society has had domestic science training herself, and I am sure will be a great help to the society. The mem-bers of this society are also working hard to support their hospital. From Swan River west to Benito, about twenty-five miles, and although this is in one of the newest parts of the country and one of our newest societies

this is in one of the newest parts of the country and one of our newest societies I found it most interested and energetic. The day I arrived the ladies held a bazaar, the decoration of which would have done credit to many a city, the apple-blossom booth being particularly attractive. The proceeds netted the handsome sum of 875, which is to be spent in the beautifying of their cemery. Think, dear friends, of what it means to have the lonely neglected God's acres converted into beauty spots. This acres converted into beauty spots. This acres converted into beauty spots. This society has also installed street lamps in

the town.

Many nationalities are represented in this community, and more than any other society that I know of it, is helping to solve the problem of making of them good Canadians.

good canadians.

In the evening there was a Christmas tree entertainment, the hall being packed with men, women and children, among the latter being many Doukhobor with men, women and children, among the latter being many Doukhobor children taking part in the drills and program, and I am told they often act as interpreters. One very pleasing feature of the entertainment was a dramatic performance given by the members of the society, which was a decided success, no one thinking they were too old to help. A splendid spirit exists, the old to help. A splendid spirit exists, the dainty little bride of the aforementioned apple blossom booth and the young women entering heartily into the work with the older members. One mother of with the older members. One mother or a large family said to me: "You have no idea what this society has meant to me; before its advent I rarely went from home, now I am meeting and making friends of my neighbors."

Yours very truly,
Rebecca Dayton.

EMERSON

Our society is nearing the end of a successful year's work. Besides the extensive list of prizes offered at our summer fair, nearly seventy dollars have been expended on the cemetery. Most of our meetings have been well attended and our prospects are encouraging. In October we had a paper on "Environment." prepared by our vice-president and read

Buy this oven-tested flour

Your oven will certainly produce more bread and better bread as a result of our oven test.

From each shipment of wheat delivered at our mills we take a ten-pound sample. It is ground into flour. We bake bread from quality and large in quantity we use the shipment of wheat from which it came. Otherwise, we sell

The baking quality of flour sold under this name is therefore and exact certainty. Buy and

"More Bread and Better Bread" and "Better Pastry Too" 527

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

Mrs. McDougal, and an address by Geo. Reynolds on "Character Build-This was an instructive and en-

ing." This was an instructive and enjoyable meeting.

At our November gathering an interesting and humorous sketch was read by Mrs. Ballantyne of "How our Grandfathers Lived; or Early Pioneer Life."

We were all glad we lived in our own times instead of those early days.

The best of our fall gatherings was on Hallowe'en, when we had the pleasure of having Mrs. McClung with us. She gave an evening of readings, and there was vocal and instrumental music by popular local talent. Those present appreciated highly our Manitoban authoress' rendition of selections from her writings, and many were the compliments regarding Mrs. McClung's ability as a writer McClung's ability as a writer Mrs

entertainer.
'e are hoping for a good time during
winter. Our largest meetings have the winter. always been when our country members most leisure

(May we have the paper entitled "How or Grandfathers Lived" for this department?)

OAK LAKE

The Home Economic Society had a very interesting meeting in November. Each meeting we are pleased to greet new faces—our society is steadily grow-

The curfew bell has been established in our town. The town council showed it-self very willing to co-operate in this

movement.

The principal item on the programme was a paper given by Mrs. Nelson Bannister entitled "Kindness to Animals."

There was also a display of fancy work—suggestions for Xmas gifts. This feature was a new idea and much appreciated. The ladies catered for a banquet given by the Grain Growers here, and materially increased their bank account.

The Oak Lake Society extends the

The Oak Lake Society extends the greetings of season to the other societies of Manitoba, and wishes them all

Mrs. W. Cochrane, Corr. Sec.

(May we have the paper entitled "Kindness to Animals" for Our Boys' and Girls' Department?—P.R.H.)

MANITOII

The Talent Fund-How to Make Money At the present time when money is "tight," this heading should prove particularly attractive. Men who have accumulated wealth, generally concede that the "start" was the hardest to get. Owing to the lack of initiative and incentive, in other words "getting started," the way majority rouns in the reple-

the gread majority remain in the ranks of mediocrity, talents lying buried. This article is written in the hope that it may prove an incentive to the members of other Home Economic Societies in the

way of raising funds.
The Manitou Home Economic Society The Manitou Home Economic Society ladies agreed that a rest room in town for the free use of the people of the district, was much needed and its patron district, was much needed and its patron-age since its opening is ample proof of the appreciation of the women, children and men thus benefited. The regulations prohibit smoking. Some member of the society visits the rest room every day, and with the co-operation of every per-son interested, no difficulty has been ex-perienced in maintaining the best of order.

Two rooms in a central location were rented, one fitted up with linoleum floor covering, a couch, rocking chairs, read-ing table and literature, an extension table and dishes, a coal range, tea kettle, tea pot and tea and sugar for the free tea pot and tea and sugar for the free use of the patrons. Every morning a fire is built by the caretaker, the kettle put on and the rooms opened, and they remain open until ten thirty at night. The other room is fitted up as a lavatory. The cost of maintaining the rest room during the winter is about thirty dollars per month.

It is to the methods adopted to raise the funds required that special attention

It is to the methods adopted to raise the funds required that special attention is directed. On the last of July, when about 3,000 people had gathered in town to celebrate Dominion Day, the members of the society served dinner and supper, they donating the food and undertaking the work. This proved very successful, \$100 being made. With this amount on hand the rest room was furnished and opened. On the opening day, a Saturday, tea was served in the rest room, and the sum of \$20 collected. The question of maintaining it was next in order, and one of the most energetic members of

the society suggested a "Talent Fund." Each member was to take twenty-five Each member was to take twenty-five cents of her own money as a talent, in-vest it and at the end of a year turn it in to the society funds with the profits accrued. Quite a number acted on the suggestion, and at he end of the year at a regular meeting of the society the at a regular meeting of the society the money was brought in and the methods adopted described, much to the interest and amusement of those present. Some clubbed together, gave an ice cream social, others gave a New Eng-

and amusement of those present.

Some clubbed together, gave an ice cream social, others gave a New England dinner, while another group made aprons and sold them at the rest room on a Saturday afternoon. In each case the sum of \$15 was realized, which was turned over again and again in various ways. One lady invested her "Talent" in sweet pea seed, and with the blossoms captured a prize at the local exhibition; another bought an oiled duster and rented it to her husband for use in his office for twenty-five cents a month; while another baked a loaf of bread, which took first prize in the HE. department at the Winzing Exhibition. Many other ingenious methods o' increasing the "Talent" were used, and when all the "Talents" were rendered, the encouraging sum of \$88 was found to have been made, and the faithful stewards were enthusiastically complimented on their ingeniuty and industry.

Both men and women, outside of the society, have lent the most generous aid to the members in their efforts.

The society motto is "Excelsion."

(Contributed.)

SWAN LAKE Special Meeting of the H.E.S.

Special Meeting of the H.E.S.
On Tuesday, November 11th, the
H.E.S. of Swan Lake enjoyed a visit from
Miss Ross, demonstrator and lecturer
from the Agricultural College, Winnipeg.
Nearly all the members turned out, and

Nearly all the members turned out, and there were a good many visitors to appreciate a thoroughly instructive and pleasant afternoon.

While preparing for the demonstration on "Fruits," Miss Ross gave what was, to the major portion of her audience, the most interesting part of the programme, a chat on Home Nursing, in which she gave much valuable advice, as well as outlining the course which will be sent



OUR RELIABLE SEEDS, TREES, SHRUBS AND PLANTS

can be found growing in every district in Western Canada, and we gratefully acknowledge the many nice letters we are constantly receiving from our customers. We know our Seeds and Products are the best for this Western climate and our customers are proving this. We can buy seeds to sell at half the price we do; but we don't handle that sort; we want the best only. So do you.

Special Nursery Offer For Spring 1914

For \$10.00 We Will Send

50 Currant and Gooseberry bearing bushes of best varieties.
100 Raspberry Plants, best varieties, best varieties.
12 Plum and Fruit Trees, young and thrifty, 2 to 3 feet high, and 12 Rhubarb Roots.

Why Not Have A Good Fruit Garden?

200,000 Maples, 6 to 10 feet. 200,000 Poplars and Willows, 5 WRITE TO-DAY FOR OUR 1914 CATALOGUE

It is compiled jointly with Messrs, SUTTON & SONS (for whom we are Special Agents for Canada) and is a sale and profitable guide to Horticulture in the Canadan West, as we list and describe only such varieties as we have found reliable in our 31 years of practical, .teadily-acquired knowledge of Western Horticulture.

SASKATOON,

Garden Seeds, Grasses and Fodders

Our grass seed stocks are the purest and the most reliable to be obtained— noted for their quality and high germina-tion. A full description of many new and useful grasses is to be found in our

1914 Catalogue and no farmer in West-ern Canada can afford to miss this. Ours is the oldest horticultural establish-ment in Western Canada.

THE PATMORE NURSERY COMPANY

BRANDON.

the state of the s

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

out from the college later. At the out from the conege later. At the or-ginning of her talk on nursing, Miss Ross emphasized the importance of the small things which add to a patient's comfort and advised the humoring of a sick person as much as possible, main-taining firmness in all things essential.

sick person as much as possible, maintaining firmness in all things essential.
Five pillows at least are necessary when
propping a patient up in bed, two of
which should be small, to tuck in between
the shoulders and the base of the spine.
One of the surest ways to soothe a
restless patient is to bathe the face and
hands in lukewarm water, brush the
hair and gently rub the tired limbs and
muscles. Bed sores are always a fearful
possibility to every nurse who is undertaking a long case; perfect cleanliness,
keeping the sheet taut and unwrinkled
and the bed free from crumbs and easing
the pressure on any part by means of
an air cushion or a circular pad made of
batten and covered, will do much to
prevent them; one precaution which
should always be taken at the beginning
of any illness likely to be tedious, is to
rub the elbows, shoulders and base of
the spine at least once every twenty-four
hours with a little alcohol or methylated
spirits in the palm of the hand, dusing the spine at least once every twenty-four hours with a little alcohol or methylated spirits in the palm of the hand, dusting a little boracie powder or Fullers Earth on afterwards; this tends to harden the skin and, except in very unusual cases, will entirely prevent the forming of host acress the strength of the str bed sores.

General directions were given as to the care to be taken in the administration of medicines; hot, but not too hot, water of medicines; hot, but not too hot, water bottles for chilly patients; the cautious use of alcohol; the necessity of preparing the patient entirely for sleep and getting the house perfectly quiet before administering a sleeping draught, and many other useful items which will doubtless be elaborated during the course, but which were so clearly explained by Miss Ross that there is little danger of those who listened, forgetting her helpful lecture. helpful lecture.

her helpful lecture.

The second part of the afternoon was given to a chat on Food Values—canning vegetables, bottling fruit and the practical illustration of three tasty ways of cooking apples, which recipes were afterwards given to the audience. One remark made by Miss Ross, when speaking of food values, seemed to us the epitome of sense, when one thinks of the present high cost of living: "The most nutritious," an axiom with which we may comfort our digestions when we sit down to a lowly meal of "herbs and lentils."

The afternoon was closed by a hearty

thanks to Miss Ross, who had earned the gratitude of her audience by the clear, concise way in which she gave her demonstration and made her explana-

ANNUAL MEETING OF THE H.E.S.

The annual meeting of the Swan Lake H.E.S. was held on Saturday, December 6th, with a very fair representative turnout. After the programme for the afternoon was opened and it was found that only one member, Mrs. Penniston,

that only one member, Mrs. Penniston, had responded to the request for Christmas gifts, the other business was taken. First, however, the president, Mrs. Gordon, gave a comprehensive resume of the year's happenings in the society. She pointed out that the year had dealt kindly, in that none of the members had been called away by death. Mrs. Gordon also spoke of the success which had followed the appointing of four ladies to take charge of the programme each month, instead of setting special subjects to be taken up. Some of the papers had been so interesting that they month, instead of setting special sub-jects to be taken up. Some of the papers had been so interesting that they were considered worthy of a wider audience than could gather in Swan Lake, and a copy of Miss Edith Gamble's paper on the happiness and in-terests to be found in a country life will be published shortly in the Canadian Thresherman and Farmer, while the paper read earlier in the season by Miss Beech on the trees, flowers, etc., of the paper read earlier in the season by Miss Beech on the trees, flowers, etc., of the Manitoban woods has also been asked for. As far as the actual work of the society was concerned, the president had but little to report, as it had been found im-

was concerned, the president had builtitle to report, as it had been found impossible to quite finish the work undertaken in the cemetery; but the quiet, unostentatious work of making the H.E. a pleasant meeting place for town and country to gather in social intercourse had been eminently successful, as was proved by a membership of fifty-four, thirteen in excess of last year.

The election of officers was then proceeded with and expectation was made certainty when Mrs. G. B. Gordon was re-elected president for the fourth time in succession, which is tantamount to saying that Mrs. Gordon has been the honored president of the society since its inception. The hearty applause which greeted the announcement testified one again, not only to the popularity which greeted the announcement testined one again, not only to the popularity which Mrs. Gordon has always enjoyed, but to the satisfaction every member felt at her re-election to a position which she fills so worthily and with so much tact and diplomacy.

secretary, Mrs. W. H. Hartwell, The secretary, Mrs. W. H. Hartwell, was also re-elected, which will also be her fourth year in this position, for there again it was felt that it is rarely wise to try and "improve the best." Mrs. B. Langridge is the corresponding secretary, and the following ladies are on the board of directors: First vice-president, Mrs. A. E. Downey; second vice-president, Mrs. Gardner; and Mesdames A. E. Penniston, R. Blair, H. Dodd, S. P. Hodgson, W. W. Shirley, J. Herbert and A. J. Moore. Mrs. Gardner was again chosen chairwoman of the meeting again chosen chairwoman of the meeting again chosen chairwoman of the meeting and filled the position admirably. Mrs. H. Dodd kindly acted as secretary during the absence of Mrs. Hartwell. The four ladies in charge of the January programme are the president, the two vice-presidents, and the secretary.

(This paper was read before the Swan Lake Society.)

OUR WOODS

OUR WOODS

Having always lived and taught school in the country, and having had from one-half to two miles to walk to my different schools, I have had ample opportunity to study our native woods. It has been the greatest pleasure to walk along planning in my mind picturesque homes, made so, entirely, with what I could find in our woods. Our trees and shrubs are beautiful now in their natural state, how much better they would bestate, how much better they would beunder cultivation?

come under cultivation?

Manitoba is in great need of hedges to
prevent the terrible sweep across the
fields in the early spring and after the
autumn plowing. The soil seems to be
heavy enough to withstand the wind on neavy enough to withstand the wind on most farms around us, but I have seen sandy soil pile along the roadside in great banks often five feet deep. Hedges and more trees would prevent this blowing more trees would prevent this blowing to a great extent on such farms, and on others they would beautify if nothing else. What pretty hedges our wild rose and hawthorne would make, with the hazel nut here and there. What a simple thing it would be to make one. They grow so entangled that it would not be necessary for so many fences and they would replace the cruel barb wire. These shrubs are not pretty during the sumer months only, but the whole year. The rose blooms some where about the second week in June, and it has an end-less variety of shades, from a pure white second week in sune, and it has an endess variety of shades, from a pure white and faintly tinted pink to a deep red. The red berries of both the hawthorne and rose are showy until Christmas and after. I have noticed flocks of birds

feeding on these berries, preparing for flight, long after they have disappeared from near our homes. We are so many months without our feathered friends, I think we should have around our homes every inducement to keep them near us every inducement to keep them as as long as weather permits. It seems as though these shrubs are becoming quite though these shrubs are becoming quite uncommon as the country is turned into large fields and they are broken out of the highways to prevent the high drifts in winter. In the wild state I have seen the rose tree five feet high, and under cultivation about seven feet. Like every thing in the garden and orchard it needs to be trained and the dead wood cut away, but I think it would greatly take from its beauty to elip it.

Among the prettiest of shrubs for

Among the prettiest of shrubs for standing out singly is the high bush cranberry, with its long drooping standing out singly is the night observables, with its long drooping branches. During the winter months the light-colored wood is most effective against the darker trees. And the clusters of red berries remain hanging the greater part of the winter months. Have you ever noticed in the early acring the greater part of the winter months. Have you ever noticed in the early spring the pretty leaf buds of the cranberry? The bud is a dark red and gradually the pale yellow leaves come bursting through. The blossom is uncommonly pretty and the large bunches of berries are a grand sight. Whenever I am gathering cranberries I always stand back to admire them before I begin my work of destruction. I will not give my opinion of green cranberry jelly as I have taken the liberty to bring some with me to speak green cranberry jelly as I have taken the liberty to bring some with me to speak for itself to those who have never tried it. Cranberry catsup also is not to be des-pised. Low land is the natural home of the cranberry, but it grows very well on uplands too. I believe it was at Fort William I noticed the cranberry shrubs growing along the side-walks. They were about seven or eight feet high, and although it was late in October they still had great clusters of berries.

Again, we have some very fine fruit trees, such as the red and black cherries, the wild plum and the wild apple. I have seen the pin cherry tree in a garden and it was a splendid specimen about twenty feet high. The cherries were nearly four times the original size. You all know what a rich flavor there is to the pin cherry jelly. The choke cherry is most prolific every year, but they are not nearly so nice for jaming purposes, although they make delicious wine. The shiny blackness also adds beauty to the forest. I have with me a sample of the wild plum preserved. So many people think our wild plums are useless,

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ne fruit herries, pple. I garden about s were e. You e is to cherry ney are rposes, e. The to the ple of

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when really I think there is no comparison between the flavor of our plums and that of the bought fruit. There are two kinds that I know of and there may be more—the small long shaped plum, which is rather nice to eat raw, but bitter when cooked, and the large cooking plum. When mother first came to Manitoba a lady told her the right way to cook the native plums, that they might lose the bitter taste, was to boil them about ten minutes in sode water and then strain them and proceed to preserve them the usual way. We boil about four quarts in erough water to cover them with a te of soda. The native apple I know by tittle about. It is not unlike the ct. in both size and flavor. The tree seems 'n be very scarce. I saw one once and though what a pity it was not transplanted. when really I think there is no con was not transplanted.

Every one knows of the beauty of our but have you ever noticed what a much finer tree our Balm of Gilead, or as it is locally called the, black poplar, is in comtocative careet one, more popular; It has a larger and finer leaf with a silvery shade on the under side. The tree itself grows much higher and seems to be a sturdier tree in every way. In northern Manitoba they have forests of Balm of Gilbad, and our trees always look Manitoba they have forests of Balm of Gilead, and our trees always look stunted and shabby beside them. I love to inhale the morning air when the Balm of Gilead is in bud. The scent is so strong that you can detect it for a long distance. Mother used to have a jar of Gilead salve always in readiness for our numerous burns and scalds, and she has found nothing more healing. She made it by boiling together two cups of buds with nearly a pound of butter and buds with nearly a pound of butter and then strained it into a jar. This salve will keep for years without losing its

strength.

After all this hurry and rush, when the land is broken and the farms have their permanent landlords, I believe, that men will turn their attention to beautifying their country homes, and that after a time we shall have ideal homes in Manitoba. I trust they will have the native woods doing their share in the pleasant task of delighting the eye.

Bessie Beech.

KEEPING YOUNG PEOPLE INTER-ESTED IN COUNTRY LIFE

By Edith Gamble

(This paper was also read before the Swan Lake Society.)

Keeping young people interested in country life seems to be quite a problem. It needs careful consideration and planning to keep them happy and contented on the farm.

ning to keep them happy and contented on the farm.

Most families in the country have much work to do. It becomes so monotonous if there is not a change once inawhile. It is a hard life when a young girl works from early morning until late at night without a rest or a little recreation. If they could only have the evening to themselves, it may be spent, either in visiting, reading, music or games. With her work somewhat reduced she would have more time to plan and give to the family and to her friends, and also for study and interchange of thought.

Parents should give their sons and daughters a chance to go to school. It is only but fair to give them a good education. Help them in their studies and appear interested in their work. Even if the parents do not make quite so much money at the time, they will see in after years that the education has been of more benefit than a large bank account. When they see their children's happiness and auccess, they are surely rewarded for the inconvenience with which they had to contend in giving this topportunity.

Eve the young people spending money. Pt. the girls on an allowance, or so mach to dress on. This will train them to buy sensible material and to see the difference of dress goods that are on the market.

If there is a society or league in con-

market.

If there is a society or league in connection with the church, the young people may derive much pleasure and benefit by attending such.

Let the boy have a share in the stock.

For instance, give him a pig. When it grows up and is sold, let him have the proceeds. Do not let it be "Johnny's

pig and father's pork," for it will dis-courage him and he will soon lose all interest in farm life.

terest in farm life.

The daughter may be given an acre in the garden, or a few fowl. Let her have the benefits. See how interested size grows. At the first sign of her seeds sprouting, or the first fruits, she will run in with great excitement, telling about her success.

in with great excitement, tening arose her success, old make the home and its surroundings as beautiful as possible. Paint the house and barns; keep the garden trim, decorated with flowers, shrubs and trees. If this is done, surely the young people would have no desire to leave their beautiful country home for a small, cramped dwelling in the city.

city.

Encourage the young people. Tell them how much temptation and sin there is in the city, and of the health, sunshine, fresh air and clean sport of rural life. An occasion I rip to the city will had to break the monotony and quiet. life. An occasioni trip to the city will help to break the monotony and quiet-ness of country life, and it will give the man idea of what city life is. If the son is sent to the Agricul-tural College or the daughter to the Household Science Department for the winter months, they come home easer winter months, they come home eager and willing to put into practice the scientific methods they have been taught. Every civilized person has a longing for the beautiful, whether that beautiful

for the beautiful, whether that beautiful be expressed as a kind act, a sunset, a couplet in verse, a song, a picture, a charming face, a harmoniously planned room, or a lovely bit of handlwork. The city affords much in that which is beautiful, so we will try to lead the young people to see these things in the nature's work of rural life. work of rural life

Dear Mrs. Hamilton:

Dear Mrs. Hamilton:

The September meeting of Miami
Home Economics was held in vestry of
the church. Several articles on "The
Selection of Meats from the Market"
were read, and a very interesting discussion took place.

Mrs. McNevin read an interesting
paper entitled "Too Neat a House."

In October, our subject was "The
Value of Cheese in the Diet." A paper
was received from the cellege on the subject and was appreciated by all. Several ladies gave recipes for using cheese,
which proved helpful.

ject and was appreciated by the ceral ladies gave recipes for using cheese, which proved helpful.

In November, Miss Playfair, from Hartney, was present with us, and addressed a mixed audience on the subject of "Farm Life for the Boy and Girl." I

of "Farm Life for the Boy and Girl." I cannot commence to give you any details of her address, but only those of us who have listened to her know the value of her speeches.

Our December meeting took the form of our annual meeting. Ten new directors were appointed as follows: Mrs. Kerr, Mrs. McNevin, Mrs. Reeve, Miss Seip, Miss Collins, Mrs. Anderson, Mrs. Blanciard, Mrs. Good, Mrs. Sutherland, Mrs. Rumbal.

Mrs. Bundenard, Mrs. Good, Mrs. Suther-land, Mrs. Rumbal.

At the close of the meeting the direct-ors met and elected their officers: Presi-dent, Mrs. McNevin; first vice-president, Miss Seip; second vice-president, Mrs. Reeve; secretary-treasurer, Mrs. T. H. Rumbal.

I will enclose the paper entitled, "Sleighing as a Fine Art," with January's report.

Yours sincerely, Mrs. T. H. Rumbal.

DELORAINE

Deloraine,
Dec. 16th, 1913.
Dear Mrs. Hamilton: The December
meeting of the Deloraine Home Economics Society was held in the basement
of the Presbyterian Church, December of the Presbyterian Church, December 6th. The only business was the election of officers, which resulted as follows: President Mrs. (Dr.) Thornton; vice-president, Mrs. R. J. Price; secretary-treasurer, Mrs. R. H. Dymond; directors, Mrs. Rankin, Mrs. R. Franklin, Mrs. W. Edenbeimer, Mrs. Pierce, Mrs. Perry, Mrs. Thomas, Mrs. Sawyer, Mrs. J. Steedsman; auditors, Mrs. W. E. Cowan, Mrs. W. Thomas, The meeting closed with the National Anthem.

For Wedding **Anniversary** or Birthday Gifts



You will find it a most pleasing occupation to choose them from the 1914 Dingwall Catalogue of Jewellery, Silverware and Cut Glass

Articles of beauty and value suitable for any of these occasions are clearly shown in it on page after page of fine illustrations, with brief descriptions of their style and price. Whether it be a small Bon-Bon or Salted Almond Dish, a pretty Scarf Pin or Brooch, or an elaborate Tea and Coffee Service of

Sterling Silver you will find them in this really attractive and interesting book. So if you have a copy, make use of it; if not, send your

name and address to us with a request to forward one, and we will see that one is sent forward by return mail, postpaid and free of charge.

D. R. Dingwall Limited Winnipeg Jewellers,

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

QUALITY SEEDS

Make more money by sowing more productive seed. Buy "Quality Seeds", the only kind we sell. Our line of seeds is more complete than ever before, and we can supply choice seed of the varieties best suited to Western Canada. Write for prices and samples of any of the following:

Wheat Marquis, Red Fife. OatsGold Rain, Banner, Abundance. Barley Eclipse (Registered) O.A.C. No. 21. FlaxPremost, Common.

Grasses and Clovers Western Rye, Brome, Timothy, Kentucky Blue,
Canadian Blue, "Regina" Brand Lawn Grass Seed.
Alsike, White Clover.

Corn, Potatoes, Rape, etc., etc.

Write today specifying requirements.

The Mooney Seed Co. Ltd.,

"Seedsmen to men who care." Regina, Sask.

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

Mothers' Corner

Lullabies

Lullabies

In a little booklet I find this quotation before lullabies of different uations:
"The one priceless jewel in the world is the child; the one priceless crown, the crown of motherhood. In the cradle the mother's influence begins. The lullabies she croons, the stories she tells, the pictures she draws, aid the dawning consciousness—the uncut jewel of the mind—to reflect all that is fair, and so form correct habits for life. While the gem has the power to draw to itself the loveliest ray of light, the text of Nacorrect habits for life. While the gem has the power to draw to itself the loveliest ray of light, the text of Nature's sermon in stone is, "We must become fixed at maturity. The brightest ray of the jewel cannot hide the flaw that by some false habit of crystal growth, formed years before, was to lessen its value forever."

German Cradle-Song

Sleep, baby sleep!
Thy father guards the sheep,
Thy mother shakes the dream-land

tree, And from it fall sweet dreams for

Sleep, baby sleep! Sleep, baby sleep!

Japanese Cradle-Song

Hush! Hush! my lotus blossom, Go to sleep, go Neko okorori Neu Neko yo.

Sleep, sleep, my lotus blossom, Go to sleep, go. Neu Neko okorori Neu Neko yo

Birdies their wings are folding, Fold thy sleeves so. Neu Neko okorori Neu Neko yo.

Moonbeams are softly stealing, Stars come and go. Neu Neko okorori Neu Neko yo.

Fireflies around ty pillow, Flit to and fro. Neu Neko okorori Neu Neko yo.

American Cradle-Song

ock-a-bye, baby, on the tree-top, When the wind blows the cradle will

rock, When the bough breaks, the cradle will fall,

And down come baby, cradle and all.

West Indian Lullaby

West Indian Lullab
Where the coral reef is deep,
Where the flying fishes leap,
And the crystal waters creep,
Lulla-by.
My little Black Pearl,
My little Black Pearl,
My little Black Pearl,
Sleep! Lullaby.

Still is the plumed palm.

And the spices breathe a balm,
And safe in mother's arms,
Iull-a by.
Rest little Black Pearl,

My little Black Pearl, My little Black Pearl, Sleep! Lullaby.

Hush! Thy father's sail I see,
Where the white-caps fleck the sea,
He is sailing home to thee,
Lull-a-by.
To his little Black Pearl,
His little Black Pearl,
His little Black Pearl,
Sleep! Lullaby.

Deep, 'neath the foaming brine,
He dives for jewels fine,
But the dearest gem is mine,
Lull-a-by;
It is mine, it is mine,
My little Black Pearl,
My little Black Pearl,
Sleen, Lullaby,

Lull-a-by, my pretty baby,
Close thine eyes so bright;
While the moon pours o'er thy cradle
All her silv'ry light; hile the moon pours o'er thy cradle All her silv'ry light.

I will tell thee tales of fairies, Lull thee with a song; While the moon, heaven's lonely wand'rer Creeps the sky along; While the moon, heaven's lonely wand'rer Creeps the sky along.

Italian Cradle-Song

Italian Cradie-Song
Sleep, my baby, sleep my darling;
While I hush thee with my song;
Sleep until the new sun rises,
Sleep in peace the whole night long.
Slumber without care or sorrow,
My torment—and ah! my bliss;
Slumber, till the Lord's own angel,
Wake thee with his gentlest kiss.
Slumber, slumber, slumber, slumber.

Indian Cradle-Song

Nic-nac no-shion nady, Mush-ni-na-qua,
Mush-ni-na-qua,
O-ie-tion, o-ie-tion!

Nic-nac-no-shion na-dy Nic-nac-no-shion no-dy, Mush-ni-na-qua,
Mush-ni-na-qua,
O-ie-tion, o-ie-tion!

Will some one send the Canadian Cradle-Song to this corner, please? PRH

Cradle-Song to this corner, please?

The book entitled "Helps for Expectant Mothers," will be sent free to any wife who requests it. The following letter to this corner is most encouraging: "Dear Mother's Corner:

"I have long since meant to write to you and tell you that we have another little girl. You will, perhaps, remember I wrote last winter asking for a booklet and advice. We were then twenty-five miles from a doctor, but am glad to say the railway is built past our homestead now, and we are only a mile and a half from town, and there is a doctor in the town now. I think that the Mother's Corner was just fine this month, and must congratulate you also. I agree with you that child life is certainly the greatest blessing. I have two little girls, one three and the baby. There certainly is a crying need for doctors and nurses on this prairie. I do think it is very terrible to think of those poor women who are in the asylum just because they had no doctor. It is a great risk. I must close now, with best wishes to the Mother's Corner, also the Canadian Thresherman and Farmer.

"I am, yours very truly,
"A Prairie Mother."

Let us have more letters for putlication in this corner. I have many private

Let us have more letters for pullica-tion in this corner. I have many private letters to this corner which I am pleased to receive, but I want more to publish. Mothers of families could help young mothers so much if they would give their experiences in caring for children. I will not publish the names of the writers.

THE NEW BABY

S. Josephine Baker, M.D., has a most helpful article entitled "Fair Play for the New Baby," in Pictorial Review. She says:

She says:

"Fair play for the new baby means a fighting chance to live, and for health and strength. There is nothing more fragile, more helpless or more precious, than a new baby, and the baby must necessarily be wholly dependent upon the intelligence to whose care it has been committed. The first year is the most hazardous year and the most important year, and a wise mother will bend all her energies to giving the baby a fair start. a fair start.

a fair start.

"First, a mother's highest duty is to nurse her baby. Another important point is the matter of handling." Do not make a plaything of baby. Why I have actually seen a woman put a six weeks baby in a sitting position and trot it in a shaky jiggle on her knee till its little eheeks would shake. A grown person could not ordure this. This has laid the foundation of many nervous wreeks.



Mason & Kisch Pianos

"FROM FACTORY TO HOME 17 WESTERN BRANCH STORES

A Mason & Risch Piano does not only fulfill the function of a high-grade instrument, but is an object of artistic adornment as well. It is just he kind of a Piano you would expect one of the oldest and foremost factories in the world to

WRITE US FOR BOOKLET TO-DAY.

MASON & RISCH LIMITED

WINNIPEG, MAN.

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



For Sale by WINNIPEG PIANO CO. 295 Portage Avenue Manitoba Hall

The back bone is a delicate thing and the important nerves of the body centre in the back bone.

"Do not handle a baby all the time during its waking hours. The dancing, jumping, joiting and trotting many babies are subjected to are simply laying the ground work of a distrubed nervous system that will mean ill-health, nervous

irratibility and poor physical develop-ment in after life. A baby's nervous system suffers most from this practices St. Vitus' dance can often be traced to this. Forcing a baby to smile is another bad practice. Stimulated activity is the most cruel form of treatment to them. Being forced to laugh, to smile and to play, wreaks havoc in the nervous system.

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Allow the baby to be handled quietly. It is most injurious to talk to it much and to attract its attention.

"In a family of kittens the one that is fondled most grows very little and often dies, while the others grow strong. The little pup that is handled much does not grow like those that are not handled much. The same is true of babies. Thousands of babies suffer a lifetime of penalty and shattered nerves because of over-stimulation and trotting on the knee during babyhood. The mother who has learned this lesson will receive more joy from holding the quiet little body in her arms and seeing sleep come slowly over it, as normal sleep should, than she ever will after she has tired herself and really injured the baby by accustoming it to habits of trotting, rocking or walking the floor.

"The growth of the baby is very rapid during the floor.
"The growth of the baby is very rapid during the first year, and in order that the growth shall be undisturbed, the baby needs quiet and rest.
"Babies need fresh air in winter as well as summer, and do not cover the face with a silk handkerchief or a veil. Veils are injurious to the eyes, and silk is liable to smother them. A baby should

face with a silk handkerchief or a veil. Veils are injurious to the eyes, and silk is liable to smother them. A baby should not be subjected to a strong light. Half of the babies in cities have weak eyes through the faull of nurses. Eight nurses out of ten will hold a young baby under a strong light. "Keep the baby's feet and stomach very warm to prevent colic—but keep the head cool. Slik or cotton should be worn next to the head and not wool. "If babies are not disturbed while sleeping they will rest better. Do not turn them in their sleep. A mother can change the position when the baby takes its next nap.

change the position when the baby takes its next nap.

"Keep baby very quiet. It is a crime to make a plaything of him."

Last month a mother who has taken care of her little four year old and supported her since birth was forced to give the little one to a cruel father who planned to take her to the Old Country. Can you imagine yourself in the place of that broken-hearted mother? Yet the judge decided in the father's favor.

The same month a negro was fined fifty dollars for ruining a girl—it was so decided by the judge. A fair girl's virtue was worth only fifty dollars. Would that we had women judges at times.

Recipes

Prune Pie

Stew prunes as for sauce. Stone them. Line a deep pie tin with pulf paste and fill with the prunes, sprinkling over the top one-half cup of sugar. Cover with a frosting made from the whites of two eggs beaten with sugar

Date Pie

Date Pie

Wash the dates in warm water, allowing them to lie in it for two or three minutes Stone and put in a pie tin on which the lower crust has been spread. Add a little cold water, sprinkle with flour, dot with butter, put on an upper crust and bake. Or instead of a crust, frosting may be used as in prune pie.

Banana Pie

Slice the bananas thinly and put over them the grated peel and juice of one lemon. Let them absorb the acid for an hour or two before using. Sweeten to taste and bake with two crusts.

Rice Pie

Add three cups of cream to one of steamed rice. Sweeten to taste and flavor with cinnamon. Beat the whites of two eggs to a froth, then beat all together and put in a deep pie plate with under crust only. Bake about thirty minutes. thirty minutes.

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The Finest Lemon Pie
(Enough for two pies.) Form a crisp
crust, line pie tins, prick the crust with
a fork and bake it a light brown before
pouring in the following filling: Stir into_two cups of boiling water four tablespoons of cornstarch dissolved in cold
water; allow this to boil, and in the

meantime beat together the yolks of four eggs (reserve the whites for frosting) two cups of granulated sugar, the grated rind of one, and the juice of two lemons, and stir into the cornstarch while it is boiling; then draw this off the stove and allow it to stand on the back of the stove for a few minutes. Pour this mixture into the previously lined tins. Beat the whites of the eggs to a stiff froth and into this stir one tablespoonful of powdered sugar, spread over the pie and place in a quick oven, allowing to remain till the frosting turns to a rich golden brown.

Cocoanut Pie

One pint scalded milk, one-half cupful sugar, yolks of two eggs, and a dessert-spoonful of cornstarch, dissolved in milk. Beat all together, cook in boiling milk, and add one cupful cocoanut which has been soaked in milk over-night. Bake with lower crust and eringue if liked.

Fruit Pot Pie

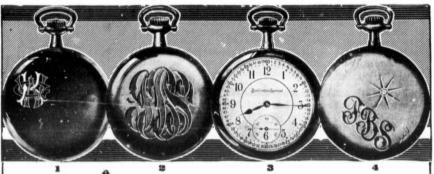
Take an enamel dish about four or five inches deep, line the bottom with pie crust, put in a layer of apples cut up fine, sprinkle with raisins, sugar and pre crust, put in a layer of apples cut up fine, sprinkle with raisins, sugar and cinnamon (or nutmeg, if that flavor is preferred!, dot with bits of butter, put on another layer of pie crust, more apples, etc., until the dish is full, having a crust on top, slit in two or three places. Bake about two hours, turn over on to a dish, sprinkle with more sugar and crustamon, and eat while warm with or cinnamon, and eat while warm, with or without sauce. This is delicious.

Philadelphia Butter Pie

Philadelphia Butter Pie
Cover a pie plate with crust as for
custard pie, a piece of butter the size of
an egg, two-third cup sugar, one cup sweet
cream—or rich milk will do with little
more butter added, one tablespoon flour.
Stir butter, flour and sugar together,
then stir in the cream, pour in the plate
and bate still become. and bake till brown.

Mock Mince Pie

To one cup cracker crumbs or state bread, add one cup molasses, one cup sugar, one-half cup vinegar, one and one-half cups water, one teaspoon mixed spice and butter size of an egg, also raisins, if you have them. Mix and let come to a boil, when the "meat" is ready for use. It is a real good substitute for mince meat. Will fill three pies.



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A NOVELTY IN MYSTERY STORIES THE SECRET OF

SAMUEL HOPKINS ADAMS AUTHOR OF AVERAGE JONES ETC

Continued from page 104 December

"If you are going back to the hotel, may I take you along? I am Alexander Blair."

"Thank you. I'll be glad of a My name is Chester Kent. "Not the Professor Kent of the

Ramsay case?"

"The same. You know, Mr. Blair, I've always believed that you had more of a hand in Ramsay's death than I. Now, if you wish to withdraw your offer of a

"Not at all. A man who has been so abused by the newspapers as I, can stand a little plain speaking. For all that, on my word, Professor Kent, I had no hand in sending Ramsay on that dirty business of his."

The scientist considered him "Well, I believe thoughtfully. you," said he shortly, and got into the machine.

"This meeting is a fortunate chance for me," said Blair presently.

"Chance?" murmured Kent interrogatively.

The car swerved sharply, but immediately resumed the middle of the road.

"Certainly, chance," said chance," said the motorist. be?"

"Of course," agreed Kent. "As you say.

"I said fortunate," continued the other. "because you are, I believe, the very man I want. There is an affair that has been troubling me a good deal. I haven't been able to look into it personally, because of the serious illness of my son, who is at my place on Sundayman's Creek. But it is in your line, being entomological, and perhaps criminal."

"What is it?" asked Kent.

"An inexplicable destruction of our stored woolens by the clothes moth. You may perhaps know that I am president of the Kin-We've been having sella Mills. a great deal of trouble this spring, and our superintendent believes that some enemy is introducing the pest into our warehouses. Will you take the case?"

"When?"

"Start to-night for Connecti- remarked Kent. cut."

Chester Ken's long fingers went to the lobe on his ear. "Give me until three o'clock this afternoon to consider. Can I reach you by telephone?"

"Yes, at Hedgerow House, my place."

"That is how far from here?"

"Fourteen miles; but you need not come there. I could return to the hotel to conclude arrangements. And I think," he added significantly, "that you would find the project a profitable one."

"Doubtless. Are you well acquainted with this part of the country, Mr. Blair?"

"Yes, I've been coming here for years."

"Is there an army post near by?"

"Not within a hundred miles." "Nor any officers on special detail about?'

"None, so far as I know."

Kent produced from his pocket the silver star with the shred of cloth hanging to it. "This may or may not be an important clue to a curious death that occurred here three days ago."

"Yes, I've heard something of it," said the other indifferently. "I took it to be mostly gossip."

"Before the death there was a struggle. This star was found at the scene of the struggle.'

"It looks like the star from the collar of an officer. I should say positively that it was from an army or navy uniform."

"Positiveness is the greatest temptation and snare that I have to fight against," remarked Chester Kent. "Otherwise I should say positively that no officer, goto a dubious rendezvous, would wear a uniform which would be certain to make him conspicuous. Are you yourself an expert in woolen fabrics, Mr. Blair?"

"I have been."

"Could you tell from that tiny fragment whether or not the whole cloth is all wool?"

Without replying, Blair gave the steering handle a quick sweep, and the car drew up before a drug store. He took the star and was gone a few minutes.

"Not all wool," he announced on his return.

"Exit the army or navy officer,"

"Why so?"

"Because regulations require all-wool garments-and get them. What is the fabric?"



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"A fairly good mixture, from the very elemental chemical test I made. Something in the nature of a worsted batiste, I should judge, from what I could make out under the inferior magnifying glass that they loaned me."

Thank you, Mr. Blair. You've eliminated one troublesome hypothesis for me. I'll telephone you before three o'clock. Good day."

From the woolen manufacturer, Chester Kent went direct to the Martindale Center library, where he interviewed the libra-

"Do you get the Agriculture Department publications?"

"Have you a pamphlet issued by the Bureau of Entomology, Helmund on The Swarm Phenomenon in Lepidoptera?"

"Yes, sir. It was inquired for only yesterday by Mr. Blair."

'Ah, yes. He's quite interested in the subject, I believe."

"It must be quite recent, then," said the librarian. "We haven't seen him here for a long time until two days ago, when he came and put in a morning, reading on

"So, Mr. Alexander Blair," said Kent, addressing the last fence post on the outskirts of the town, after a thoughtful walk, "that was a fatal break on your part, that mention of Helmund. Amateurs who have wholly dropped a subject since years back don't usually know publications issued only within three months. That casual meeting with me was well carried out, and you called it chance. A very palpably manufactured chance! But why am I worth so much trouble to know? And why does Alexander Blair leave a desperately ill son to arrange an errand for me at this particular time? And is Hedgerow House, fourteen miles distant and possessing just such an electric car as a woman would use in driving round the country, perhaps the place whence came Sedgwick's sweet lady of mystery? Finally, what connection has all this with the body lying in Annalaka burying-ground?"

Eliciting no reply from the fence post, Kent returned to the Eyrie, called up Hedgerow House, and declined Blair's proposition.

Early that evening Francis Sedgwick came to the hotel. The clerk, at first negligent, pricked up his ears and exhibited unmistakable signs of human interest when he heard the name; for the suspicion attaching to the artist had spread swiftly. Moreover, the caller was in a state of hardly repressed excitement.

'Mr. Kent? I'm afraid you can't see him, sir. He isn't in his

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"Isn't he about the hotel?"

The clerk hesitated. "I ought not to tell you, sir, for it's Mr. Kent's strict orders not to be disturbed; but he's in his special room. Is it anything very important? Any new evidence, or something of that sort?"

"That is what I want Mr. Kent to decide."

"In that case I might take the responsibility. But I think I had better take you to him myself."

After the elevator had carried them to the top of its run, they mounted a flight of stairs, and walked to a far corner of the building.

"Nobody's been in here since he took it," explained the clerk as they walked. "Turned all the furniture out. Special lock on the door. Some kind of scientific experiments, I suppose. He's very quiet about it."

Having reached the door, he discreetly tapped. No answer came. Somewhat less timidity characterized his next effort. A growl of surpassing savagery from within was his reward.

"You see, Mr. Sedgwick," said the clerk. Raising his voice he called, "Mr. Kent, I've brought-"

"Get away and go to the devil!" cried a voice from inside in fury. What do you mean by-

"It's I, Kent, Sedgwic. I've got to see you."

There was a silence of some seconds.

"What do you want?" asked Kent at length.

"You told me to come at once if anything turned up.

"So I did," sighed Kent. "Well, chase that infernal bell-boy to the stairs, and I'll let you in.'

With a wry face the clerk retired. Kent opened the door, and his friend squeezed through into a bare room. The walls were hung and the floor carpeted with white sheets. There was no furniture of any kind, unless a narrow mattress in one corner could be so reckoned. Beside the mattress lay a small pad and a pencil. Only on the visitor's subconscious self did these peculiarities impress themselves, such was his absorption in his own interests.

"It's happened!" he announced. "Has it?" said Kent. "Lean up against the wall and make yourself at home. Man, you're shak-

ing!"
"You'd shake, too," retorted the artist, his voice trembling.

"No; anger doesn't affect me that way. Wait! Now, don't tell me yet. If I'm to have a report, it must be from a sane man, not from one in a blind fury. Take time and cool down. What do you think of my room?"

"It looks like the abode of white silence. Have you turned Trappist monk?"

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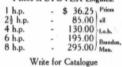
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"Not such a bad guess. This is the retreat of my mind. I think against the blank walls."

'What's the game?" Sedgwick, interested in spite of himself.

"It dates back to our college days. Do you remember that queer freshman, Berwind?"

"The mind-reader? Yes. The poor chap went insane afterward."

"Yes. It was a weak mind, but singularly receptive one. You know we used to force numbers or playing-cards upon his consciousness by merely thinking of them."

'I recollect. His method was to stand gazing at a blank wall. He said the object we were thinking of would rise before him visually against the blankness. Did you ever figure out how he managed to do it?"

Not exactly. But his notion of keeping the mind blank for impressions has its points. If you throw off the clutch of the brain. as it were, and let it work along its own lines, it sometimes arranges and formulates ideas that you wouldn't get from it under control."

"Sort of self-hypnosis?"

"In a sense. For years I've kept a bare white room in my Washington house to do my hard thinking in. When your affair promised to become difficult for me, I rigged up this spot. And I'm trying to see things against the walls.

"Any particular kinds things?

Kent produced the silver star from his pocket, and told of its discovery. "The stars in their courses may have fought against Sisera," he remarked; "but they aren't going out of their way to fight—to fight—to—to—" Kent's jaw was sagging down. His lean fingers pulled savagely at the lobe of his long-suffering ear. "The stars in their courses-in their courses- That's it!" he half whispered. "Sedgwick; what was it your visitor said to you about Jupiter?"

'She didn't mention Jupiter."

"No, of course not. Not by name. But what was it she said about the planet that she pointed out, over the sea?"

"Oh; was that Jupiter? How did you know?"

"Looked last night, of course," said Kent impatiently. "There's no other planet conspicuous over the sea at that hour, from where you stood. That's not important; at least, not now. What did she say?"

"Oh, some rot about daring to follow her star and find happiness, and that perhaps it might lead me to glory or something.'

A kind of snort came from Kent. "Where have my brains been!" he cried. He thrust the



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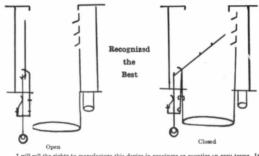
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bit of embroidery back into his pocket. Then, with an abrupt change of tone:

"Well, is your temper in hand? "For the present."
"Tell me about it, then."

"You remember the the picture of the face?" said Sedgwick with an effort.

"Nobody would easily forget it."

"I've been doing another portrait from the sketches. It was on opaque glass, an experimental medium that I've worked on some. Late this afternoon I went out, leaving the glass sheet, backed against a light board, on my easel. The door was locked with a heavy spring. There's no possible access by the window. Yet somebody came in and smashed my picture to fragments. If I can find that man, Kent, I'll kill him!"

Kent glanced at the artist's long strong hands. They were clenched on his knees. The fingers were bloodless.

"I believe you would," said the scientist with conviction. "You mustn't, you know. No luxuries, at present.'

"Don't joke with me about this. Kent "

"Very good. But just consider, please, that I'm having enough trouble clearing you of a supposed murder of your doing, to want a real one, however provoked, on my hands."

"Keep the man out of my way, then."

"That depends. Anything else in your place damaged?"

"Not that I noticed. But I didn't pay much attention to anything else. I came here direct to find you."

"That's right. Well, I'm with you, for the Nook."

Locking his curious room after him, Kent led the way to the hotel lobby, where he stopped only long enough to send some telegrams. The sun was still a few minutes short of its setting when he and his companion emerged from the hotel. Kent at once broke into a trot.

CHAPTER X

The Invasion

Such ruin as had been wrought in Sedgwick's studio was strictly localized. The easel lay on the floor, with its rear leg crumpled. Around it were scattered the fragments of the glass upon which the painter had set his labor of love. A high old-fashioned chair faced the wreckage. On its peak was hung a travelling cap. Lopping agross the back sprawled a Norfolk jacket belonging to Sedgwick. Chester Kent lifted the coat, and after a swift survey let it drop.

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"Did you leave that there?" he

"I hung it across the back of the chair," answered Sedgwick.

"North window closed?" "Yes, as you see it now."

"And west one open?"

"Nothing has been changed, I tell you, except this." Sedgwick's hand, outstretched toward the destroyed portrait, condensed itself involuntarily into a knotty fist.

"The lock of the door hasn't been tampered with," said Kent. 'As for this open window," he leaned out, looking around, "any man gaining access here must have used a ladder, which is unlikely in broad daylight."

"How about a pass-key for the door?"

"There's a simpler solution near at hand, I fancy. You didn't chance to notice that things have happened to the coat, as well as to the easel."

"Then the invader through the coat and, not finding what he was looking for, smashed my picture," cried Sedgwick.

"Through the coat, certainly," agreed Kent, with his quiet smile. "Now hang it across the chair back just as it was, please.'

Sedgwick took the Norfolk jacket from him. "Why, there's a hole throught it!" he exclaimed.

"Exactly: the path of the invader."

"A bullet!"

"Right again. Instead of murdering, as you pine to do, you've been murdered. That the picwas destroyed is merely a bit of ill fortune. That you weren't inside the coat when the bullet went through it and cut the prop from your easel, is a bit of the other kind. Hang up the coat please."

Sedgwick obeyed.

'There," said Kent viewing the result from the window. "At a distance of, say, a quarter of a mile, that arrangement of coat and cap would look uncommonly like a man sitting in a chair before his work. At least, I should think so. And yonder thicket on the hillside," he added, looking out of the window again, "is just about that distance, and seems to be the only spot in sight giving a straight range. Suppose we run up there."

Sound as was his condition, Sedgwick was panting when he brought up at the spot, some yards behind his long-limbed leader. As the scientist had surmised, the arrangement of coat and cap in the studio presented, at that distance, an excellent simulacrum of the rear view of a man lounging in a chair. Bidding the artist stay outside the copse. Kent entered on hands and knees and made extended exploration. After a few moments the sound



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of low lugubrious whistling was heard from the trees, and presently the musician emerged leading himself by the lobe of his ear.

"Evidently you've found something," commented Sedgwick. who had begun to comprehend his friend's peculiar methods of expression.

'Nothing."

"Then why are you so pleased with yourself?"

"That is why."

"Because you've found nothing?"

"Exactly."

"It seems an easy system," observed the artist sarcastically.

"So it is, to a reasoning being. I'm satisfied that some one fired a shot from here. The marksman -a good one-saw you, as he supposed, jerk to the shot as if with a bullet through you, and went away satisfied."

Leaving no trace behind him." added Sedgwick.

"No trace that is tangible. Therein lies the evidence."

"Of course you don't expect me to follow that."

"Why not? Look at the ground in the thicket."

"What is there to be seen there, since you've said there are no marks?"

"The soil is very soft."

"Yes; there's a spring just back

"Yet there's not a footprint discernible on it."

"I've got that part of the lesson by heart, I think."

"Use your brain on it, then. Some one designing to make you his target, has been in this thicket; been and gone, and left the place trackless. That some one was a keen soft-footed woodsman. Putting it in words of one syllable, I should say he probably had the racial instinct of the hunt. Does that flush any idea from the deep and devious coverts of your brain?

"Racial instinct? Gansett Jim!" said Sedgwick.

"Exactly. If I had found tracks all over the place, I should have known it wasn't he. Finding nothing, I was naturally pleased."

"That's more than I am," retorted the other. "I suppose he's likely to resume his gunnery at

any time."
"Unless we can discourage him as I expect we can."

"By having him arrested?"

"Difficulties might be put in our way. Sheriff Len Schlager and the half-breed are in some sort of loose partnership in this affair, as you know. Gansett Jim honestly thinks that you had a hand in the Lonesome Cove murder, as he believes it to be. It isn't possible that the sheriff has subtly egged him on to kill you in revenge."

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POSITION WANTED—As Engineer on gasoline plowing and threshing outfit, experienced. Can send references. Rumely gas pull, or Pioneer preferred. Start early spring—stay till freeze up. A hustler. Apply, stating wages, to Lew F. Larmer, Elbow,

WESTERN CANADIAN IMPLEMENT DIRECTORY

EXPLANATION.—First find the Implement Wanted and the Number opposite will be the Number of the Concern, in the first column, that handles it.

1—AULTMAN & TAYLO R MA CHINERY CO., Regina, Calgary Saskatoro,	49—RIESBURY PUMP CO., LID., Brandon.	FRED GRINDERS. Brandon	HORSE POWERS AND JACKS, SAW MILLS, WOOD SAWS AND TREAD POWERS.	SEEDING MACHINES.
5—BEATTY BROS., Brandon.	50—RUMELY M. CO., Winnipeg, Calgary, Saskatoon, Regina.	Challenge 60 Cyclone 9 & 27 Daisy 7 Diamond 55	Caters Wood Saws and Jacks 4	Prest and Wood Champion
8—BELL ROBT ENGINE & THRESHER CO., Winnipeg.	51—SAWYER & MASSEY CO., LTD., Winnipeg.	Diamond 55 Fleury's 17 Goold Shapley & Muir 15	Cockshutt Horse Power 15 Fleury's Horse Power and Jacks 17 Fleury's Wood Saws and Tread	Hansier 30 Kentucky 30 Massey-Harris 36
MILL WORKS, Brandon.	52—SHARPLES SEPARATOR CO., Winnipeg	Goold Shapley & Muir. 15 Manitoba 37 Maple Leaf. 44	Powers. 17 Gant Scutt San Mills	Monitor 10
5-BRITISH CANADIAN AGRI. TRACTORS, Saskatoon.	54—STEWART SHEAF LOADER CO., Winnipeg.	Untario	Powers. 17 Gaar Scott Saw Mills. 50 Geiser Saw Mills and Horse Powers 7 Goold Shapley & Mutr Wood Saws. 15 Herse Powers. Tread Powers Bevel	Superior
7—BURRIDGE-COOPER CO., Win- Bipeg	55-TUDHOPE-ANDERSON CO., Winnipeg, Regina, Calgar	Stover Ideal	Herse Powers, Trend Powers Bevel	Van Brunt 17
74 Canadian Armstrong Quam Co., Saskat-on,	7—VULCAN IRON WORKS, Win- nipeg.	Watson's Ideal 60		THRESHING MACHINERY, SELF FENDERS, WIND STACKERS AND ATTACHMENTS.
76a—Canadian Corrugated Pipe Co. Portage la Prairie	WATERLOO MFG. CO., P. la rairie, Regina.	. GARDEN IMPLEMENTS	LAND JOLLERS AND PULVER- IZERS.	Advance
71—CANADIAN CUSHMAN CO	60-WATSON JNO MFG. CO Win- nipeg.	INCUBATOPS AND POULTRY SUPPLIES. Chathan locutator	Acme Pulverizere	Advance. 50 American Abell . 50 Authman & Taylor . 30 Averv . 26
8—CANADIAN FAIRBANKS MORSE CO., Limited, Winni- peg, Regina, Saskatoon, Cal- gary, Vancouver, Victoria,	61.—WESTERN FOUNDRY CO., Saskatoon.	Chatham Incubator 25 Cyphers Incubator 60 Fountain Air Sprayer 53	Canton Land Roller	Bell Robt 3
peg, Regina, Saskatoon, Cal- gary, Vancouver, Victoria,	62—WESTERN STEEL & IRON CO., Winnipeg.	Fountain Air Nerayer. 53 Iron Age (Garden Implements. 53-61 Maxwell. 55 Planet Jr. Garden Tools. 41-55	Cockshutt Land Roller	Case J. I
Toronto.	63-WHITE, GEO. & SONS, Brandon.	CLEANERS, FANNING MILLS AND	Sub-Soil Packers	Dreadpought Engine Guide 50
H.P. Oil Engines Portable and	634 - WINNIPEG CEILING & ROOFING CO., Winnipeg.	Acme Picklers.	Sul-Sul Packers 15 Deere Land Roller 17 Emerson Roller Pulveriser 20 Fleury's Pulveriser 17 Fultons' Sub-Surface packer 10 Hilbert Land Roller 55	Garr scott. 50 Geiser 9 Go vision 35-68 Garden City Feeder 21 Haw keys Feeder 35 Hartley Weisher 86-67 Huber (Gas Tractor) 294 Minneapolis 394
Stationary, 1 to 500 H.P. for all purposes. Marine Engines, 2 and 4 Cycle, 3½ to 100 H.P. Binder	64—1. INNIPEG RUBBER CO., Win- nipeg.	Automatic 19 Chatham Fanning Mills 25 Fossten Fanning Mill 17 Hero Fanning Mill 29 Hary Pickler 29	Fultons' Sub-Serface packer. 10 Hilborn Land Roder. 55 Hilborn Pulverizer. 64	Garden City Feeder
4 Cycle, 3½ to 100 H.P. Binder Engines, adapted to all makes of Binders. Hand and Power Pumps	BUGGIES AND CUTTERS.	Hero Fanning Mill		Hartley Weigher
less Scales specially designed for	Armstrong Buggies and Cutters 15 Barrie Buggies and Cutters 61 Barrie Control Cutters 27	Hero Pickler 29	Ve ity Pulverizer 34 Watson's Flexible Pulverizer 60	Minneapolis 39 Brown Wing Carrier (Ask any Thresher Co)
Plants, suitable for Country Rest.	Bayte Carriages Co		Watson's Flexible Pulveriser	
9- CANADIAN HOLT CO., Calgary	Domittion Carriages (Transfer 6 Emerson 20	GASOLINE ENGINES. Aultman & Taylor (Gas Tractor) 1		Neepawa 41 Nichols & Shepard 42 Paraon's Feeder 35
11—CANADIAN RUBBER CO., Win- nipeg. Vancouver.	Emerson 204 Gray Buggies and Cutters 25 Greer Buggies 62	Avery Tractor	MANURE SPREADERS AND LIT- TER CARRIERS.	
12—CANADIAN STOVER CO., Bran-	McLaughlo Buggies and Cutters 36	Case Tractor 14	B.T. 2 Clover Leaf. 30	Perfection Weigher (Ask any Thresher Co.) Pickering Governors (Ask any Thresher Co.) Reeves.
don. 18—CANADIAN SWENSONS CO	Munro-McIntosh Buggies & Cutters 10 Reindeer Buggies	Fairbanks (Stationary, Portable	B.T. 2 Clover Leaf 30 Corn King 30 Emerson Low Down 204 Hawkeye 35	Roeves
14—CASE J. T. M. Co. Winnings	- damage irrugance and Cutters 00	Flour City (Tractor)	Kemp	Runely 35 Ruth Feeder 35 Sawyer Massey 51
Regina. Calgary, Saskatoon. 18—COCKSHUTT PLOW CO., Winnipeg . Regina. Calgary. Edmonton.	CREAM SEPARATORS.	Gade. 7 Gas Pull (Tractor). 50 Gas Traction ("Rig 4, 30"). 22 Geiser (Stationary, Portable Trac-	Mandt	Watrous. 58 Watrous 59 Whiteford Justice Measure 58
16—CRANE & ORDWAY, Winning.	Blue Bell. 30 Champion. 55 Dairy Maid. 30	Gas Traction ("Big 4, 30")	National 10 Ruccess 17	Whiteford Justice Measure
17—DEERE, JNO. PLOW CO., Win- nipez, Regina, Calgary, Edmonton Saskatoon, Lethbridge.	De Laval	Gilson. 48 Hackney Auto Plow 254	GANG PLOWS, ETC.	
18-DE LAVAL SEPARATOR CO.	Empire	Hart-Parr i action		THRESHERS' SUPPLIES. Brown Wing Carrier (Ask Any
Winnipeg. 19—DOMINION SPECIALTY CO.	Mellotte	Huber (Gas Tractor) 29½ Ideal 24½ International 30 International (Traction) 30	Canton. 30 Case. J. I. 27 Case. J. I. Engine Gang 27 Centon Mogul Engine Gang. 30 Cockshulz. 35	Brown Wing Carrier (Ask Any Thresher Co.)
Winnipeg.	National 46 Renfrew Standard 48 Sharples 15	International (Traction)30 Manitoba33	Centon Mogul Engine Gang	Crane & Ordway
201—EMERSON BRANTINGHAM IMPLEMENT CO. Windows	Standard 48	Manitoba 33 Minneapolis 399 Master Workman 60 Nichola & Shepard (Tractor) 42	Deere Engine Gang	
201—EMERSON BRANTINGHAM IMPLEMENT CO., Winnipeg, Regina, Calgary, Saskatoon. 21—EMPIRF CREAM SEPARATOR	CULTIVATORS AND STUMP PULLERS.		Emerson	General Supply Co. 28 Goodyear Tire & Rubber Co. 24 Thresher Supplies Carried in Western Canada by all the Thresher
\$114—GARDEN CITY FEEDER CO	Climax Stiff Tooth Cultivators 15	Ohio (Traction) 58 "Oil Pull" Runely (Tractor) 57 Massey-Harris Olds. 34 Pioneer (Tractor) 45 Resilers Standard 48	Emerson Engine Gang. 55 Geiser Engine Gang. 7 Grand Detour 60 Janesville Gang 1 Massey-Harris Engine Gang 39 Moline 10 Moline Engine Gang. 10 Oliver Engine Gang. 30 Oliver Engine Gang. 30	Cos. Madison Kipp Lubricators
23—GAS TRACTION CO. Winning	Cockshutt Cultivator	Renfrew Standard 48 Reeves 40 (Tractor) 204 Rustin Procter (Tractor) 5	Massey-Harris Engine Gang 39	
13—GENERAL SUPPLY CO., Win-	Deering Cultivator	Rustin Procter (Tractor)	Moline 10 Moline Engine Gang 10 Oliver Engine Gang 30 Paris 40	Ohio Injection Co. (Ask any Thresh- er Co)
34—GOODYEAR TIRE & RURBER	Einerson 2015 Fleury a Cultivator 17 Frost & Wood Scuffler 15 Hilborn Stump Puller 64 K. A (2 Horse) Cultivator 21 McCormick Cultivator 30	Stover (Stationery, Portable Tree.	Paris. 49 Reeves Engine Gang. 20 Railroad Grading & Rooter Plows. 58	Handled by all Leading Jobbers and Thresher Companies
SOL, Winnipeg, Regina, Calgary, Sold-GOOLD, SHAPLEY & MUIR.	Hilborn Stump Puller 64 K. A. (2 Horse) Cultivator 21	Twin City ' 40" (Tractor)	Railroad Grading & Rooter Plows. 58 Verity. 34	Winnipog Rubber
85—GRAY-CAMPBELL CO., Win-		Waterloo Boy	PORTABLE GRAIN ELEVATORS.	WAGONS AND SLEIGHS, Adams Farm Trucks
ntprg. Brandon, Moose Jaw, Cal- gary.	Paris Souther	HARVESTING MACHINES. Champion	Canadian Corrugated Pipe Co 7 a Cyclone 17	Adams Farm Trucks
251-HACKNEY MFG. CO., Winni-		Prost & Wood 15	Cyclone	Gears 15 Adams' Wagons & Sleighs 15 Anderson Metal Wheel Trucks 55
CO. Winnipeg, Calgary, Regina.	DISC AND DRAG HARROWS.	Massey-Harris Reaper 34	Taggart 7 Winnipeg Ceiling & Roofing Co. 633 Wisard 27	Avery Wagons & Grain Tanks
Winnipeg. IMPLEMENT CO.,	Ajas Drag	Massev-Harris Corn Harvester	wisard	
18—HART PARR CO., P. la Prairie, Regina: Calgary, Saskatoon.	Bissell Disc.	And the control of th	POTATO AND BEET MACHINERY.	Columbus Wagon. 30 Davenport Wagon. 17 Electric Steel Wheel Trucks. 27
HERO IMPLEMENT CO., Win-	Canton Disc	HAY LOADERS, HAY PRESSES, HAY TOOLS, MOWERS, RAKES, SWEEP RAKES, HAY STACKERS AND SHEAF LOADERS,	Aspinwall Potato Planters and Sprayers. 15 Aspinwall Assorters and Cutters. 15	rish Bros., (Racine) Wagun 50
204-HUBER MFG. CO., Winnipeg	Cockshutt Disc and Drag	Admiral Hay Press	Deere Potato Diggers and Beet	Grand Detour
80-INT, HARVESTOR CO. Winnia	Cockshutt Lever and Chp. 15 Deer Dise and Drag 17 Degr. King Bose Drag 17 Deere Steel Bose 17	B.T. 2 Buffalo Hay Press. 51		Gray Light Farm Sleigh. 26 Hamilton Wagon 30 Hamburg American Wagon. 64-60 Metal Whee Truck. 17 Millburn wagon. 36
per Region. Calgary, Edmonton, maskateon. Brandon. 31—LISTER R. A. & CO., Winnipeg.	Defiance Jr. Disc 62	Canton Hay Press	Paramethrane fut	Metal When Truck
CIALTY CO., Winnings.	Emerson Due and Drag 64	Champion Nower 30 Champion Side Delivery Rake 28 Dain Hay Londer and Stacker 17	Fureka Potato Planter	New Deal Wagon & Sleighs 17
Brandon.	Fleury's Steel Channel Drag. 17	Dain Side Delivery Rig	oparisation operation of	Northern Sheet Metal Wheel Truck 17
34—MANNEY-HARRIS CO., Winnipeg. Regins, Calgary, Edmonton,	Fleury's Disc	Deere Hay Londer	RIDING ATTACHMENTS, HAR- ROW CARTS, WHEEL BARROWS . AND HAND CARTS.	Petrolis Wagota & Shighs 30
90 MAYTAG CO., Winning.	Fleury's Upic Drag 17 Fuller and Johnston 61 Grand Detout Drag and Disc 60 Hossier Wheel Disc 1 International Diamond and Lever 30 Massay Harris Disc and Drag 34	Decring Hay Stacker	AND HAND CARTS. Cockabutt Wheel Barrow 15	Stone & Gravel Spreading Wagon 58
86-Mr.I.Al GHLIN CARRIAGE CO. Winnipeg	International Diamond and Lever. 30 Massey Harris Disc and Drag 34		Corkshutt Wheel Barrow	Weber Wagon
TOR CO., Winnipeg.	McCormick Disc	Front & Wood Mower. 15 Tedder. 15	Erlipse High Harrow Cart	WELL DRILLING MACHINERY.
MACH CO. Regina.	Harris Disc and Drag	Tedder. 15 Prost and Wood Champion Hay Londer. 15 International Hay Stacker. 30	Fleury's Wheel Barrow	Austin
304—MINNEAPOLIS THRESHING MACHINE CO., Winnipeg, Re- gina, Calcary,	Superior Wheel Disc	International Sweep Rake 30	Naylor Harrow Attachment 27	Brandon 6 Sparta 8 Standard 48
ginn. Calency. 40—MOODY MATHEW & SONS. Winnipeg.	Universal Tongue Trucks for Disc.	Jenkine Sweep Rake	P. & O. Hand Cart	Standard 48 WIND MILLS, TANES AND PUMPS
41-NEFPAWA MFG CO., Neepawa.	Universal Tongue Trucks for Disc. 18 17 17 17 17 18 18 18	Jerkins Sweep Rake. 10 Keystone Hay Londer 30 Louden Hay Tools 32 Massey-Harris Mower 34 Massey-Harris Howep Rake 34 Massey-Harris Hay Todder and	Corkshutt Harrow Cart. 15 Derer Harrow Carts 17 Felipse Hush Harrow Cart. 27 Felipse Hush Harrow Cart. 27 Fuller & Johnstone Harrow Cart. 61 Kramer Botary Harrow 17 Nashot Harrow 17 Nashot Harrow 17 Nashot Harrow Attachment. 27 Nashot Harrow Attachment. 27 Nashot Harrow 19 P. & O. Hand Cart. 30 Rarine Rotary Harrow 14 Success Harrow 14 Success Harrow 24 Marton 28 Martin 28	Caters Star Windmill
42-NICHOLS & SHEPARD CO Regina Winnipeg.	A SECOND CONTRACTOR OF THE PROPERTY OF THE PRO	Massey-Harris Sweep Rake 34 Massey-Harris Hay Tedder and	Watson's Wheel Barrow 60	Chicago Actropher 97-7
AS—ARMSTRONG MANUFACTUL ING CO., Saskatoon.	FEED AND ENSILAGE CUTTERS AND PULPERS.	Massey-Harris Side Delivery Rake. 34	ROAD SCRAPERS AND ROAD MACHINES.	Goold Shapley & Muir Wind Mills
44—PETRIE MFG. CO, Winnipeg, Regina. Calgary, Vance ver, Edmonton.	Cockebutt Feed Cutters	McCormick Mower 30 McCormick Mower 30 McCormick Sweep & Hay Rake 30 Nozon Mowers & Rake 55	Cocksbutt Scrupers	and Pumps
Edmonton. 48—PIONEER TRACTOP Co., Cal-	Corkabuti Feed Cutters 15 Corkabuti Pulper 15 Ficury's Feed Cutter 17 Geiser Feed Cutter and Grinder 7 Massey-Harris Feed Cutter 34 Watson's Feed Cutter 60 Watson's Root Pulper 60	Reeves Hay Press	Good Roads Machinery	Londen Pumps
48—RENFREW MACH. CO., Sanka-	Watson's Feed Cutter	Reeves Hay Press 201 Stewart Sheef Londer 54 Success Hay Londer 10 Tiger Steel Rake 18	Russell Elevator 32 Standard Reversible Grader 17 Tor-nto Pressed Steel Scrapers 61 Sawyer & Massey Reversible Grader 51	Ontario Pumps
	s toos ruiper	anger oven make	Server a successy surversable Grader 81	Automy rumps

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MACHINES.

HINERY SELF STACKERS AND MENTS. 50 30 26 3

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Never Idle—Always Earning

An engine of any make is a poor investment if it is allowed to stand idle a large part of the year. An engine of any make will make some money if it can be kept busy all the time, but how many engines can be safely trusted to run continuously without eating their heads off in fuel and repairs? The

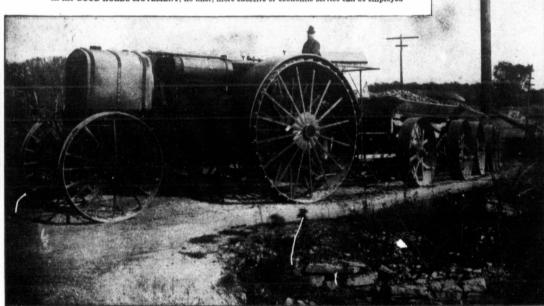
HUBER GAS TRACTOR

can be depended upon to run night and day if necessary from the 1st of January to the 31st of December for many years with the one understanding that it enjoys its Sunday rest. With reasonable care its repairs will be a negligible quantity, and its earning capacity is practically unlimited.

Road Grading or Any Kind of Haulage there is no more dependable power than a HUBER TRACTOR.

With a train of dump wagons the crushed stone or gravel can be hauled on the job faster and better and cheaper than in any other way. If there is grading or plowing to be done, you have a steady, strong power to pull the grader or rooter plow; also for hauling away the dirt in wagons.

In the GOOD ROADS MOVEMENT, no finer, more effective or economic service can be employed



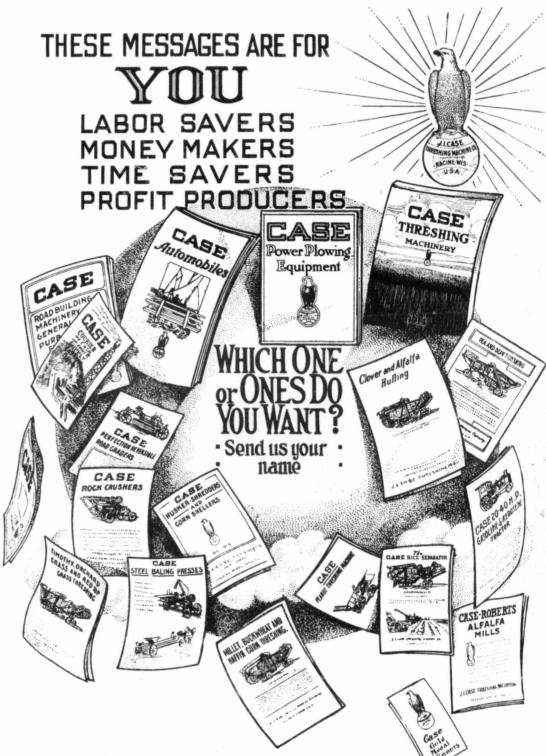
THE HUBER GAS TRACTOR, MADE IN TWO SIZES-15-30 AND 30-60 (TWO AND FOUR CYLINDER RESPECTIVELY)

All our tractors are fitted with a band pulley, making an ideal power for every kind of stationary work. As a threshing engine it is unequalled.

The Huber Gas Tractor "Thirty-Six" is four cylinder, with drive wheels eight feet high and strong gearing built for the hardest work. It uses gasoline or kerosene with great efficiency and economy.

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Canadian Office: Arlington and Logan, WINNIPEG, MANITOBA Home Office and Factory: MARION, OHIO, U.S.A.



1914 CASE CATALOGS

J. I. Case Threshing Machine Company, (Inc.)

741-791 State Street Racine, Wisconsin, U.S. A. CANADIAN BRANCHES. TORONTO, WINNIPEG, SASKATOON, REGINA & CALGARY