

Make the Change Now

Mogul 8-16
Kerosene
Tractor



THESE are the days of heavy horse power expense. The horses are idle. Hay and oats are worth so much it's a shame to use them for feed. It takes five acres of land to raise enough to feed one horse one year. Horses are at the top of the market, with prices higher than for years past. The market for horses is so good that, even at these higher prices, they are easy to sell. What better time could there be to consider replacing some of your horses with a Mogul 8-16 kerosene tractor?

You can use a Mogul 8-16 with profit for about all the work you are now doing with horses—the tractor does it better and cheaper. It takes less of your time to care for it. It increases the amount of land you make a profit from—five acres for every horse it replaces. It is the right size for most of your belt work. It burns any fuel oil—kerosene, naphtha, benzine, motor spirits, enabling you to use the cheapest fuel you can buy.

Why not plan to sell some of your horses now and save the winter feeding? Mogul 8-16 will take their place and do your spring work in time. Write today for our 100-page book "Tractor Power vs. Horse Power," which we will send promptly if you'll only ask for it. Write us at the nearest branch house.

International Harvester Company of Canada, Ltd.

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At Brandon, Calgary, Edmonton, Estevan, Hamilton, Lethbridge, London, Montreal, N. Battleford, Ottawa, Quebec, Regina, Saskatoon, St. John, Winnipeg, Yorkton

Look Into the Feeder Question

The Feeder is the Vital part of your threshing rig, for no matter what separator you have you cannot do good and fast work with Irregular Feeding.

"TEN TO ONE"

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

Take a Day Off and Do a Little Thinking

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

If So, There is Something Wrong With Your Feeder
A "Garden City" Feeder attached to your separator will overcome all these troubles. WE GUARANTEE IT OR NO PAY.

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

THE GARDEN CITY FEEDER CO. LTD.	REGINA, Sask.
THE GARDEN CITY FEEDER CO. LTD.	BRANDON, Man.
H. P. Norton Co.	CALGARY, Alta.
Mart McMahon	LETHBRIDGE, Alta.

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE GUIDE

rows. In our rural social life the hired men form the foundation stones. They, in the country, and the unskilled laborers in the city bear the dead weight of society. We in the middle sometimes feel that we are being squeezed, but it is only the man at the bottom who is really "up against it," or rather down against it and down under it.

Raise the foundation stones and you raise the whole building. Perhaps practically you cannot begin at the bottom—that is an open question. But undoubtedly the success of any effort may be most accurately judged by observing its effect on the bottom. Relieve the pressure at any point and the bottom row is the first to feel it. This is what Warren H. Wilson means when he says that the test of a church's success is its effect on the "marginal people" of the community—the hired men, the renters, the foreigners, etc. How do the churches stand the test?

So let us hear from the "hired men" and from the "hired girls," too.

Unfortunately several letters seem to have been lost as they were being forwarded to me. All cannot be published or answered, but all contain suggestions or criticisms that are valuable to one who is trying to interpret the needs of the community. So send us in your contributions.

A NEW DISCOVERY

"Professor Bottomley of London, England, has discovered a certain bacteria that will so work on peat as to transform it into a fertilizer said to be fifty times the value of barnyard manure as plant food. The new product is called 'Humogen'."

Thus in a few short sentences is announced what may be one solution of the soil fertility problems. Enlisting the aid of bacteria to improve the soil is likely to be far more profitable than feeding it with chemical manures. Even when we do this the work is only half done, for these manures added to the soil are, with few exceptions, not at all fit for plant food. They have yet to undergo another manufacturing process, one that is brought about by living organisms too small to be seen without the aid of a microscope; too numerous to be counted, for there are many millions in a single ounce of soil.

Well Known in Legumes

For hundreds of years farmers have known that leguminous crops always improved their land, but it was for scientists to discover the reason. Now the little "nodules" to be found on the roots of these plants are familiar to most farmers, and inoculated soil for growing alfalfa is generally used. The little "nodules" show that the desired partnership between the plant and the microbe has taken place, but all attempts to make the microbe enter into partnership with other plants, such as wheat, completely failed.

This was the beginning of discoveries. As there was one kind of living organism doing such wonderful work, why not others, living a free independent life in the soil without the aid of the leguminous plant? Quite lately this very kind of organism was discovered and given a big name, Azotobacter, meaning the nitrogen microbe. Like those in the nodules of the leguminous plant, this microbe feeds on sugar and starch at a tremendous rate. As it does so it causes the nitrogen of the air to combine with the soil. These little workers cannot live without food, neither can they live in soil containing an acid. Fire, too, will destroy all microbes in the soil. If a farmer wishes to keep these allies on his land he must both feed and protect them.

Nature's Storehouse

Wild uncultivated land is far richer in bacterial life than that which man has cultivated for he is continually carrying away for his own use the sugar and starch grown in his crops. On uncultivated land the dead and decaying vegetation provides fresh food for the bacteria and the great harvests of Canada are due to the unused nitrates that have been accumulating for centuries in the soil. "Humus" is nature's storehouse for nitrogen and is also an aid to the soil when holding moisture. Its presence in the soil is second only in importance to nitrogenous matter. There is a close relationship, too, between the humus and the bacterial life in the soil, an increase of the former raises the percentage of the latter. The

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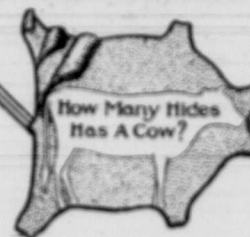
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