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THE CENTAUR COMPANY, NEW YORK CITY.

LIME FROM SUGAR FACTORIES VALUABLE

By M. M. McCool, Professor of Soils, Michigan Agricultural College.

It is generally recognized that sour or acid soils are common in Michigan and that the difficulty encountered in establishing clover and alfalfa seedlings in the main is due to this condition. Therefore, available and cheap sources of lime are of tremendous importance to the State of Michigan.

The various sugar factories are being visited by members of the College soils department in order to determine the nature, condition, and extent of the material that has accumulated about them. These examinations have brought out, as has been known by numerous people, that there are many thousands of tons of lime at several of these factories. In several instances the managers of these offer this by-product to the farmers for the removal of it. As yet, however, practically none of this material has been removed and applied to the soil. As a result in some instances the lime cake amounts to thousands of tons and in some cases the managers have signified their willingness to provide facilities for loading this material on the car so that it can be shipped from the factory, provided there is a demand for it.

Although not all the samples have been analyzed chemically, yet the analyses that are available show that the carbonate of lime content runs from about sixty to seventy-five percent and in addition there may be present from one to one and one-half percent of phosphoric acid, two-hundredths to four-tenths percent nitrogen, and about twenty-five hundredths of one percent of potash. The vegetable matter ranges from ten to fifteen percent.

This situation is different from that in foreign countries where the lime that remains from the purification of beet sugar is removed by farmers almost as rapidly as it is dumped. There it is very popular as a soil improver. Its popularity is due to its composition. We have seen magnificent crops of corn and luxuriant growth of weeds growing on the drained lime cake "ponds." It is reported also that splendid potatoes and vegetables are grown on this material. It should be spread on the land as marl is distributed. A manure spreader may be used, or it may be piled and scattered by means of the shovel. Standard applications should be from four to six cubic yards per acre.

FARM BUREAU SERVICE PAID MEMBER'S TAXES

Selling his clover seed crop through the state farm bureau seed department last year brought Henry Pitts of St. Johns, Clinton county farm bureau member, enough over and above local dealers' bids so that the extra return paid his taxes, it is reported.

C. W. Wise of Pentwater, R. F. D. No. 1, Mason County Farm Bureau member, reports that he saved his whole three years' farm bureau dues, amounting to \$30, through the purchase of one set of Victory No. 2 harness, bought through the State farm bureau purchasing department.

Mason county farm bureau members cashed in on their memberships recently when they were able to buy picric acid in place of dynamite and saved \$3,990 on the deal. This is what the county farm bureau said: "We have just unloaded 210 boxes of picric acid at \$8.65 a hundred. Dynamite costs \$23 a hundred pound box. While this material was obtained through the government, we haven't heard of a county without an agricultural agent getting an ounce of it. So with us no county farm bureau would have meant no county agent, and no picric acid. We saved \$3,990 on that picric acid." Collect \$1,150.

In Saginaw county the Produce Growers Exchange in 1920 sold cabbage to a man for southern shipment. Twelve cars were not paid for. The Saginaw county farm bureau gave the Produce Growers' Exchange the legal assistance which enabled those men to secure a judgment for \$1,150. It is reasonable to expect that the money could not have been collected if it had not been for the farm bureau activity.

The Saginaw county farm bureau this spring upset a plan to sell in the Chesaning territory on a stock plan a stallion at \$4,200, said to be about four times the worth of the horse. The farm bureau put out certain publicity regarding the horse and the contract and the plan was abandoned. Two weeks later the horse died. It was said that the county farm bureau saved the farmers a tidy sum on that deal.

These are a few instances showing that farm bureau co-operation is paying the members who make that membership work by keeping it busy in the local farm bureau co-operative and other farm bureau enterprises. To make the thing pay in actual dollars and cents in the hand, the member must make use of his marketing machinery—his local farm bureau co-operative association and through it the State farm bureau marketing arms. His own machinery in action effects savings which come back to him.

OFFICE CASH ACCOUNT.

Receipts, 1921.	
From farmers for seeds...	99.27
From advertising and membership	306.77
Total	406.04
Disbursements, 1921.	
Farm seeds	98.26
Office supplies	7.57
Stamps and postal cards	119.87
Cleaning, laundering,	9.30
miscel.	165.04
Bal. cash on hand	400.04
Total	400.04

Two and Two Make Four

If all the manufacturers of rubber tires for motor cars in the United States were to operate up to the limit of their facilities twenty-four hours per day, the aggregate production per year would be in the vicinity of 37,000,000 tires.

Not one tire company that we know of could possibly operate full facilities twenty-four hours a day, therefore the aggregate production, under the most favorable circumstances, would not and could not be above 25,000,000 tires per year.

There are now, according to United States statistics, approximately 10,600,000 motor cars in daily use in the United States. At a conservative estimate each of these cars will consume at least two new tires annually, a total of 20,000,000 tires.

The annual and normal production of motor cars in the United States is now about 3,000,000. Each of these cars requires five tires or a total annually of 15,000,000 tires.

This means a demand of 35,000,000 tires annually, not taking into consideration the constant increase in the volume of cars in use and in the annual production of motor cars.

Therefore it is certain that the making of rubber tires is and will continue to be a profitable industry.

The Wildman Rubber Co. of Bay City Surely Presents an Attractive Investment Proposition

The Wildman Self-Sealing Pneumatic Inner Tube

This is the most important advance in tire making because it places in the hands of the owners of motor cars an absolute self-sealing inner tube. Ask any motor car owner what this means. The Wildman Self-Sealing Pneumatic Inner Tube is fully covered with basic patents, both as to its design and the process of making. These are the exclusive property of the Wildman Rubber Company and literally give that company the control of the inner tube markets of the world.

If the readers of this announcement could only appreciate the mighty significance of this fact, we would be swamped with a rush of people to buy stock, because the profits which follow the possession of such a tremendously valuable and exclusive product can scarcely be imagined. Investigate.

Read the following letter:

Bay City Board of Commerce
Bay City, Michigan

W. G. MacEDWARD, Secretary
J. A. JOHNSON, President. WILLARD E. KING, First Vice President
GEO. E. WEDTHOFF, Second Vice President
DAVID MILLER, Treasurer. EDWIN T. JONES, Recorder.
The Wildman Rubber Co., Bay City, Michigan. July 21, 1921.

Gentlemen—The writer was present today at the demonstration given by your company for newspaper representatives and others, in connection with your new inner tube and was an eye-witness to all the various tests, etc., in fact I assisted in making the same.

It certainly was amazing to see ice picks, nails, and other sharp, as well as blunt, instruments driven a number of times through the casing and tube of a tire filled with compressed air, and to know that after the withdrawal of these various things there was absolutely no escape of air whatever, through the puncture.

Have had many flat tires during the number of years I have driven a car, and having those experiences in mind, the results of the tests are almost unbelievable. I assume many people would be incredulous unless they were in attendance at a demonstration, and saw what really wonderful results were achieved.

You have a most valuable asset in this much-needed tube, and there is no question in my mind but what it will advertise and sell itself in every community in which it is introduced; it fills a long-felt want and will be a boon to all owners and drivers of automobiles and trucks; undoubtedly, in many instances the invention will do away with the necessity of carrying spare tires.

All good wishes.
W. G. MacEDWARD,
Secretary, Bay City Board of Commerce.

The Wildman Rubber Company is a Michigan industry. It is an assured success and you are invited to become a part of that company. We could wish it possible that all the stock of the company were held by Michigan people so that the golden harvests which are sure to come could be enjoyed entirely by ourselves. If you know as we do, all the facts, you would not hesitate to come with us now and alert your neighbors to buy our stock.

In five years from now there will be lots of people in Michigan who will say: "I had a chance to buy stock in the Wildman Rubber Company when it started."

Fill out the coupon. Let us help you to investigate and analyze the solidity of our proposition.

WILDMAN RUBBER COMPANY,
Bay City, Mich.

Without any obligation on my part, please send full particulars.

Name

Address

The Wildman Rubber Company

W. W. Wildman, President
C. R. Twyham, Treasurer

C. A. Brownell, Vice President
Jas. C. McCabe, Secretary

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