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ingle Copies "Entered as second-class matter becember 2, 1920 at the Post Of-fice at Torrance, California, under the Act of March 3, 1879."

## **Rock Products**

GRICULTURAL LIMESTONE IS COMING INTO ITS OWN

low a Limestone Producer and Promoter Convinced Himself of the Efficacy of Agricultural Ground Limestone

By W. S. Halladay

Manager of Soils Bureau, Wis tone Co., Waukesha, Wis. print from Rock Products Journs

Reprint from Rock Products Journal
In the course of a year's work
you meet with all kinds of argument
relative to agricultural limestone,
and before one has followed the
work for long, if you are really inorested in the progress of better
striculture, as well as the manufac
ure of agricultural limestone, you
are forced to recognize the following
important problems:

ure of agricultural limestone, you are forced to recognize the following important problems:

First: What functions does limestone perform in the soil? Second What must constitute a perfect agricultural limestone? Third: What you first of all realize that this condition must be proved?

You first of all realize that this condition makes it necessary that you be willing to put your best of fort into the work, and spend the time necessary who work out each point, and prove by actual test the value of different materials, and the result of the same in actual work. It was some years before I realize the conditions, decided to stay with the work, and stand or fall by proved tests, but I am pleased to sath in 1920 facts have been proved not only to my satisfaction, by my own efforts, but the results were recognized and acknowledged by soint proved that agricultural limestone in the list of sertilizers as well as many state agricultural colleges, refused to accept agricultural college has said, "without lime there can be no life, either animal or plant." The late Dr Cyril G. Hopkins, Chief of the Agricultural College of Illinois, said "the only fertilizers not naturally produced on the farm itself are ground limestone and ground rociphosphate."

Dr. H. J. Wheeler, formerly with the Rhode Island Agricultural College thas and productural College to the corner with the Rhode Island Agricultural College.

ound ilmestone and ground roofiosphate."

Dr. H. J. Wheeler, formerly with
e Rhode Island Agricultural Col
ge and now with the Agricultural
rvice Bureau of Boston, said, "ilm
g is the most economical basic
eatment of the soil known, in fact
of the basic treatment is either
economical or lasting, or is it
llowed by such general good re
elts as liming." Prof. Chas. E
norne of Ohio again said, "every
her fertilizer material, including
rm manurs, depends on the lime
pply."

And yet in the fact of the above atements from the three greates uthorities on soil building and fer litzers we have ever had, men to hom the farmers were looking for istruction, would claim limestone outd not be considered a fertilizer. Webster defines a fertilizer: Any starfal med as a manure for land

terial used as a manure for land Manure is defined: Any fertilize substance used for enriching th

ing substance used for enriching the soil.

To fertilize is defined: To make tertile, render more fruitful.

To prove then that ground lime stone was actually a fertilizer it was necessary to prove that it would make soil more fruitful.

With-these facts before me I de cided to personally make the test

My Own Test

I secured a tract of land that had received no soil treatment of any kind for twenty-five years, and had become depleted almost to the poin of non-production.

In the fall of 1919 I limed the soil with a heavy application of ground limestone and let it lay over winter on fall plowing. In the spring of 1920 I personally prepared the seed beds and planted on the

claimed that a soft material was unnecessary, so long as the material was linely ground.

It was very soon demonstrated that a hard rock finely ground did not give the results attained by a soft stone more coarsely ground.

After this was proved, other tests were made and the vital points studied to ascertain if possible what grinding and class of material was best for the most economy in use. It was discovered that with a rainfall of 29 to 30 in. per annum, 2½ bs. of calcium was leached out of the soil for every cubic foot of water passing through it and that the finer the material was ground the finer the material was ground the sine proved that in a section of plentiful railfall the leaching was a heavier drain on calcium in the soil than was the cropping.

Coarse grades of limestone were tried out only to find that the soft

than was the cropping.

Coarse grades of limestone were tried out, only to find that the soft solumble stone would give results where the hard rock of the same grinding would not produce for three years, thus proving the soft stone was preferable and more satisfactory, being more economical to use and giving desired results.

On turther investigation it was found that experiments at state agricultural stations making tests for the past forty years had decided on a material consisting of a combination of powdered material mixed with a material a little coarser, rud on account of this being found most economical in use and most efficient for results, laws have been made in some states regulating the grading accordingly.

With these facts at hand, I was forced for resilts that in our states

With these facts at hand, I wa With these facts at hand, I was forced to realize that in our state where agricultural limestone is be ing offered, in nearly every casthe material was a waste material or a by-product; no special agricultural limestone was being offered and that to give the farmers what they really expected and were entitled to a stratly agricultural limestone plant was necessary.

I therefore secured a quarry, rec

stone plant was necessary.

I therefore secured a quarry, recommended by W. W. Weir, recently professor of the soils department of the University of Wisconsin, as the best agricultural limestone in the state and put into existence the Wisconsin Limestone Co., which at present is constructing a strictly agricultural limestone plant that will be run exclusively to produce a material which my tests have proved to be the most economical to use and one that will guarantee the results expected.

and one that will guarantee the results expected.

The agricultural limestone industry is in its infancy. It must come into its own, for without it agricultural production will continue to be less and less each year.

We should be positive about one thing in the manufacture of agricultural limestone: that the farmey receives that which is best and most economical for his use, for one failure in a district kills the use, of the material for a long period of time and is not only a loss to the manufacturer, but to the farmers as well.

manufacturer, but to the farmers as well.

I will be pleased if the proved results assist anyone in the work and encourage the manufacturer who has the right kind of material to but his product in the correct combination for a perfect result. I will be pleased to assist anyone by further information on the tests I have

ner information on the tests I have made.
Our soils bureau is maintained for the purpose of giving free in-structions and information relative to soil building and general farm-ing.

Bare Minerals, Metallurgy, Chemistry ROCK PHOSPHATE

TORRANCE, March 25.-Ques Reply to yours to Walker superintendent, Torrance Lime our superintendent, Torrance Lime and Fertilizer Company. Herewith larger samples; shark teeth, tusks. Jones, etc., found in same deposit. Answer: Correspondents will read with pleasure that the greatly-decired rock phosphate will, in all probability, be an added asset to the unineral wealth of California.

Today, after running down many reports and in analyzing many minyrais from the mining boys in the hills, we find it is probable that Jalifornia will be in a position to mine phosphate rock in sufficient coming to meet all requirements.

The samples sent to us from Torrance are rock phosphate running high in phosphoric acid. They are if blackish-brown color and from their worthless-looking appearance, at sight, have probably been unnoticed for lo, these many years.

#### ASPECTS OF SOME NEWER NUTRITIONAL DISORDERS

(By Alfred F. Hess, M. D.) EASY TERMS

EASY TERMS

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Season which I believe will be interesting to those following this many soll men of experience, who in the spring of experience, who in the spring of the crops in my sare with the spring of the crops in my sare with the spring of the crops in my sare with the spring of the crops in my sare which as a limit of the soll, in do ther infirmaties which can be sured by current and the spring of the crops in my sare which a photocomposition until the forage is improved by mineral or animal fertilization of the soil. In the state at the spring of the crops in my sare with the spring of the crops in my sare with the spring of the crops in my sare which is placed a display on the spring of the crops in my sare which as a spring of the crops in my sare which as the spring of the crops in my sa for example, that cattle raised on in pastures develop paralysis

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