VITAL CHEMICAL ANALYSIS OF D. M. S. & B. LIME, RARE MINERALS, METALLURGY, CHEMISTRY

Rock Phosphate Department

(Reprint, April 11, 1921, Los Angeles Times.

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TORRANCE, March 25.—Question. Reply to yours to Walker, our superintendent, Torrance Lime and Fertilizer Company. Herewith large samples; shark teeth, tusks, bones, etc., found in same deposit.

Answer: Correspondents will read with pleasure that the greatly desired rock phosphate will, in all probability, be an added asset to the mineral wealth of California.

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

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

IN REFERENCE TO D. M. S. & B. LIME

Reprint, May 9, 1921, Los Angeles Times

There are, however, many localities in California and in Arizona where the phosphate content is around 20 per cent tricalcium phosphate. These deposits will be referred to in this column later, when properly examined, with reports and analyses had and obtained.

TORRANCE ROCK PHOSPHATE
Reprint, May 23, 1921, Los Angeles
Times.
Los Angeles, May 7.—Q. This lot
of specimens is from same bank
where dark-colored samples occur,
with many samples from the same cut
in the marine shell bank. Fossil deposits on display at Guaranty Bank
A. The previous samples sent to
this department for tests were of
blackish-brown colors. The last consignment of specimens consists of five
different varieties, massive and granular, and chiefly 'gellowish-white in
color. All of the minerals comprising
the last shipment of five big packages
run fairly high in phosphoric acid.
Let us hope that the entire deposit
will turn out to be rock phosphate.

RARE MINERALS, METAL LURGY, CHEMISTRY, PHOS-PHORIC ACID PRESENT

The Los Angeles Times, Monday Morning, September 12, 1921.

Morning, September 12, 1921.

TORRANCE, Aug. 21.—Question. Sample A is light clay from top strata. B, medium clay, middle stratar. C is black clay from bottom strata. These samples are from same deposit as previous samples; sharks' teeth and vertebra in above material. Can you advise if organic matter and nitrogen still exist with phosphoric anhydride, potassium, sulphates, sulphides, barism? A new thought is presented in connection with the matter, in that it may have the same action on plant life that radium has on human.

TORRANCE LIME AND FERTILIZER COMPANY—P.

(Signed) EVA L. BEATEN.
Cor. Prospect and Fairhaven Ave,
Santa Ana, Cal.

VITAL

A MESSAGE TO THE SOIL CULTIVATOR

Awed Mystery Surrounds

The Immediate Activity, The Penetrating Availability The Wonderful Productivity of

Organic D. M. S. & B. Super Lime Fertilizer

Calcium Carbonate, Phosphoric Acid, Sulphur and Potash

Marvelous results obtained from this Ancient deposit of soil vitalizer, from which fossils of animals of the most gigantic size known to man have been removed, cause users to ask: Is it Radio-Active?

They like it so well; the news is nation-wide; Our quarry is working overtime and orders are filled in turn of receipt. Without lime there can be no life, either animal, plant or human, and D. M. S. & B. Lime is Super-Lime.

ABSORB THE THOUGHT! Throw out the D. M. S. & B. Lime line and get in the front ranks of agricultural prosperity

GREEN'S ART STORE

825 South Hill Street Los Angeles

September 26, 1921.
Torrance Lime & Fertilizer Co.,
Lomita, California.
Attention: S. Maus Purple, Mgr.,
Dear Sir!
In response to

Dear Sir!

In response to your inquiry about results obtained by using the D. M. S. & B. Lime Fertilizer purchased from you some three months ago—

It is a pleasure to assure you, your fertilizer has given far greater results than any I have used previously; it has not only greatly increased the growth of all my vegetation but has caused a more sturdy growth and better production.

My best wishes for the success in the promotion of such a clean, odorless, and "as you say" Available Fertilizer. If am,

Yours sincerely, (Signed) LEO GREEN.

On account of its accessibility, adaptability, availability, to all growth and high analysis D. M. S. & B. Lime is the most economical lime obtainable in Southern California, if not nation wide.

LOS ANGELES CHAMBER OF COMMERCE 128-132 South Broadway Los Angeles

(Signed) P. CLEMENTS, M. D.,
Manneer Agricultural Department.

BLACK CLAY

Los Angeles, Aug. 11th, 1921.
Organic Matter 10.00%
Nitrogen (N) 0.40
Water Soluble Potassium
Oxide (K₂O) Trace
Sulphates (SO₂) Present
SMITH, EMERY CO.,
Chemists and Chemical Engineers

USE D. M. S. & B. FERTILIZER

The Izzer of the Day

The Izzer of the Day

Speaking recently to a newspaper reporter, Thomas A. Edison said: "We have in this country an enormous capacity to invent super-machinery. But our desire to install the device is very, very weak. Human inertia is the problem, not invention. Something in man makes him resist change. He clings to his old processes and habits, rather than scrap them for something ten times more productive."

There is no reason why Mr. Edison's comments should be limited to manufacturers. Merchants and professional men and ranchers are subject to the same disinclination to discard the old methods for something better. Then, too, changing to the New Process and Method takes initiative, time for learning and decision, and the fact remains that often the new way is better and more profinable when you get it started. Naturalists tell us the pine tree is evergreen because it keeps shedding its old leaves for new ones. Many a rancher needs to adopt the principle of shedding the outgrown and less effective ways for those that have been proven better. Use the D. M. S. & B. Route to keep your growth young, fresh, and guarantee its production.

USE D. M. S. & B. FOR 100%

USE D. M. S. & B. FOR 100% EFFICIENCY

What per cent efficient are you?
What per cent efficient is your land.
What per cent efficient is your crop!
Are you disregarding 100 per centefficiency of others?
Are you disregarding scientific re-Are yo

Are you disregarding unassailable facts?
Fifty bushels of corn removes 12 lbs. of lime from the soil.
A two-ton clover crop 80 lbs.
A 200-bushel potato crop 200 lbs.
Can you hope to constantly remove it without replacing the vital element of all growth?

of all growth?

GEO W. GOOCH
Analytical Chemist
306-311 Copp Bldg, Los Angeles, Cal.
Laboratory No. 9136
October 5, 1921.

Torrance Lime & Fertilizer Co.,
Los Angeles, Cal.
D. M. S. Fertilizer—Sample from Bin
Analysis

Moisture (at 110°C). 3.57%
Acid Insoluble Matter. 10.58% cr.
Iron & Alumina (Fe.O. & AlaO.) 3.44% la
Calcim Oxide (CaO). 44.76% la
Carlon Dioxide (CO). 35.74% cr.
Synthetic Form of Above
Moisture
Phosphoric Annydride (PO). 75% cr.
Synthetic Form of Above
Moisture
Acid Insoluble Matter. 0.58% a
Iron & Alumina (Fe.O. & AlaO.) 3.44% tl
Calcium Carbonate (CaO). 3.57%
Calcium Phosphate (Ca(PO.)). 16.3% tr
Calcium Carbonate (CaO). 78.28%
Languisum Carbonate (MgCO). 2.55% la
Calcium Sulphate. Trace
(Signed) GEO. W. GOOCH.

LIME-ER-ICKS

There is a young farmer named Sime, Who practices using some lime.

"After clover," says he
"There will nitrogen be."
And his fields remain fertil a long time.

There once was a young cabbage plant Who said, "On good looks, I could bank

FRANK C. YORK

351 Norton Avenue Los Angeles

Very truly yours, DAVID STARR JORDAN.

Los Angeles, Cal. August 6, 1921.

Mr. S. Maus Purple, General Manager, Torrance Lime & Fertilizer Co. Dear Sir:

I want to express to you my appreciation for the wonderful D. M. S. & B. Lime fertilizer which I received

ciation for the wonderful D. M. S. & B. Lime fertilizer which I received from you.

On the 28th of June I applied less than 15 lbs. to a two-year-old walnut tree in my yard and to date, namely, 6 weeks, it has produced more healthy growth than it had produced in the entire two years.

It seemed to be the exact fertilizer necessary and surely has produced the most marvelous growing demonstrations that I have ever witnessed. Indeed it is very marvelous.

Furthermore all of the floral vegetation to which I applied it has taken on a very healthy growth and presents a beautiful rested appearance.

It is a most marvelous product.

With my very best wishes for the success of this most wonderful product, I am,

Yours always for D. M. S. & B-Lime Fertilizer.

(Signed) MRS. EMMA R. BEALL.

1836 Middleton Place.

Los Angeles, Aug.8,1921. Bin.

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Acid Insoluble Matter... Acid Insoluble Matter. 9.88%
Soluble Silica (SiO₂) 0.74
Aluminum Oxide (AL₂O₃) 0.71
Iron Oxide (Fe₂O₂) 0.96
Calcium Oxide (CaO) 46.70
Magnesium Oxide (MgO) 1.32
Sodium and Potassium Oxides
(NA₂O, K₃O) Trace
Phosphonic Anhydride (P₂O₃) 0.74
Carbon Dioxide (CO₂) 38.25
Organic Matter Trace
SMITH, EMERY CO₃,
Chemists and Chemical Engineers.

100 Per Cent American Drugs

bank If some lime they'd apply; Otherwise I shall die." And a victim to club root it sank. S. O. BARNES & SON DRUG SPECIALISTS

Gardena, Cal. Medicinal Oils, Cerates, Tablets,
Green Plant and Normal
Tinctures

Says in part—

Day on a new lawn produced without top soil or barnyard fertilizer—she is a work of and a fine baby. I used so your product.

Sincerely yours, (Signed) F. C. YORK.

Says of your produce.

Day D STARR JORDON

Stanford University of California

Day ID STARR JORDON

Stanford University of California

October 13, 1921.

Mr. S. Maus Purple, and in the case in the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty, a will not say that the form of disintegrated BONE as well as other salts found in flesh, it is of a certainty as will be of it will be of i

The ideal fertilizer for citrus and deciduous fruit, nuts, berries, vegetables, alfalfa, grain, lawa, flowers, ferns, bulbs; for the chicken industry mixed with scratch food to assist shell formation.