

SOIL CONDITIONER AND AMENDMENT TECHNOLOGIES

Volume 1

This hardcover volume has 340 pages and 33 contributions with major emphasis on:

- Organic Matter (composts)
- Gypsum
- Water-soluble Polymers
- Biostimulants
- Zeolites
- Sulfur and Pyrites
- Interactions of above

An important feature is a discussion of how different conditioners-amendments when used together can have an additive or even synergistic effect for increase benefit to the growing plant.

Volume 2

This hardcover volume has 451 pages and 78 contributions adds to Volume 1 and has major emphasis on:

Sustainability in Agricultural Operations
Soil Quality
Soil Management
Potential for Soil Conditioners and Amendments
Biological Properties of Soil
Erosion control
Best Management practices
Index to Volumes 1 & 2

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Soil Conditioner and Amendment Technologies

Volume 1 - (1995)
&
Volume 2 - (1997)



WHY USE SOIL CONDITIONERS AND AMENDMENTS

It has been said that good soil and bad plants beat bad soil and good plants anytime. Information in *Soil Conditioner and Amendment Technologies* can help to make poor soils become better.

Soil is not really renewable in our lifetime and beyond. It must be cared for to not only maximize output or maximize other values within reason, but also to make it possible (or not make it impossible) for those of future generations to obtain similar benefits from the land. Ownership of land, therefore, is quite different from other kinds of ownership. Soil has to last into perpetuity.

Soil is usually subject to many severe problems which require the use of various conditioners/amendments to keep it tillable, fertile, nutritionally and biologically healthy, and also to prevent it from loss by various kinds of erosion. In many ways, wise use of soil conditioners/amendments can be very worthwhile. They do not degrade soils and their value is often long term.

Soil Conditioner and Amendment Technologies is a series of books on the important topic of soil conditioners and amendments. Soil conditioners and amendments influence both the nutrient and physical characteristics of the soil. The objective of this series is to fill the gap in the world literature on information which concerns soil improvement. While there is extensive information on other limiting factors for plant growth, soil physical conditions have been extensively neglected. Poor physical properties of soil are often the major limiting factor to plant growth. *Soil Conditioner and Amendment Technologies* addresses this important issue with current and in-depth information on this important topic.

JUST A FEW OF THE CONTENTS OF SOIL CONDITIONER AND AMENDMENT TECHNOLOGIES

Volume 1

Addressing the potential for higher crop yields with best management practices

Problems and benefits of increasing levels of soil organic matter

Compost and composting: facts and myths

Gypsum is almost a universal soil amendment

Economic values of gypsum

Calcium in gypsum is also a plant nutrient

Elemental sulfur as a source of nutrient sulfur and as a soil amendment: a case history

Use of gypsum vs more soluble calcium compounds

Water-soluble polymer soil conditioners on physical properties of soil and some benefits

Magnification of the value of compost and other soil amendments with water-soluble polymers

Organic gardening and farming vs water-soluble polymer soil conditioners

Promises of new water-soluble polymer soil conditioners: looking for growers willing to try new ideas

Possible mechanisms for binding of water-soluble polyacrylamide to clay

Biostimulants as soil additives

Control of iron deficiency in plant soil amendments help

Volume 2

Can we save this fragile Earth? Agricultural Sustainability

“Each additional increment of yield becomes more difficult to achieve.” Is that correct?

How to transplant trees and shrubs with water soluble PAM (Polyacrylamide)

Some possible uses of soil conditioners for remediation.

Do compost and biosolids completely protect against toxicity from heavy metals?

Zinc and lead in soils: extractable, plant uptake threshold levels

Plant disease suppression by organic matter and other soil conditioners

Simultaneous use of both gypsum and lime on acid soils

Soil acidification from use of too much nitrogen fertilizer

Does nitrogen cycle? Are there two cycles?

Will your soil or plants respond to calcium (gypsum)?

Need for solution or exchangeable calcium and/or critical EC level for flocculation of clay by polyacrylamides

Soil stabilization with synthetic polymers

High-precision agriculture is an excellent tool for conservation of natural resources

Some plant nutrient interactions which can make big differences in crop yields