



# AgMicrobes.com

## New Technology for Agriculture

### GOOD SOIL BIOLOGY

**AgMicrobes** products contain a complimentary blend of biotechnology that restores soil that has been damaged by overuse of chemical fertilizers which build-up in the soil.

The United States Department of Agriculture has determined that only 7% of the chemical fertilizers applied to crops are utilized by the plants, while the remaining 93% becomes "locked up" as insoluble inorganic salts. This build-up of insoluble chemicals is one of the main factors that cause soil to become poor and less able to support healthy plant growth. While these salts cannot be absorbed by the crops, they can be released by run-off caused by heavy rains into adjacent rivers and lakes. Satellite photos show increasing dead zones in regions of the world where major rivers empty into the ocean.

Chemical accumulation causes the natural soil biological activity to decline, thus further reducing soil viability. Soil biological activity is necessary to convert organic and inorganic material into a bio-available form that the plant can use in order to grow and bear fruit. In addition, herbicides and pesticides can accumulate in the soil further damaging the natural soil biological community.

The biotechnology contained in **AgMicrobes** breaks down inorganic salts into bio-available nutrients that can be utilized by plants. By-products of this breakdown such as fatty acids and humates further stimulate plant growth and overall vigor.

**AgMicrobes** products will speed the breakdown of dead organic material such as carbohydrates, proteins, etc., converting them into soluble forms of nitrogen and phosphorus. In addition, **AgMicrobes** products will overgrow or competitively inhibit harmful pathogenic biology that may be present in the soil.

Continued or seasonal use of products will restore depleted or damaged soil and greatly reduce the quantity of chemical fertilizer necessary in any type of vegetation growing operation.

**AgMicrobes** products also contain biotechnology that will break down low levels of harmful toxins such as unspent herbicides glyphosate, atrazine, and similar compounds and phosphate-based pesticides in the soil as well as other pollutants that could be contained in irrigation water. These toxic substances are broken down into harmless fatty acids, CO<sub>2</sub>, and water. This process releases more beneficial nutrients (NPK plus trace elements) to insure a healthy vigorous plant.

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