

Introducing ByoGrow Products

CORRECTIVE SOIL TECHNOLOGIES

Agriculture and turf practices using traditional, petrochemical-based fertilizers, along with a myriad of pesticides, herbicides and fungicides has resulted in the gradual erosion of the soil's natural resources and created an imbalance in the natural eco-system. As a result...

“Government data from both America and the United Kingdom have shown that the concentration of a wide range of essential nutrients in the food supply has declined in the past few decades, with double-digit declines in iron, zinc, calcium, selenium and other essential nutrients across a wide range of common foods. As a consequence, the same-size serving of sweet corn or potatoes or a slice of whole-wheat bread, delivers less iron, zinc and calcium.”

—The Organic Center

ByoGrow products take advantage of several technological innovations and uses a unique blend of components designed to correct soil problems and provide the basic nutrient requirements of plants and crops. Three of ByoGrow's most important innovations are the use of *humates*, *microbes*, and an *advanced bio-stimulant* thereby creating a powerful and beneficial product line for your growing needs. These innovations allow ByoGrow to provide four key benefits: *Bind Soil Impurities*, *Suppress Inherent Diseases*, *Re-Establish Critical Microbial Balance*, and *Release Bound Nutrients*. ByoGrow can be an important aid in successfully manage your soil, plant, or water operations.



Benefits of ByoGrow

SOIL MANAGEMENT

- Releases Bound Nutrients
- Reduces Salt Build-up
- Chelates Essential Nutrients
- Provides Natural Disease Resistance
- Improves Soil Structure

PLANT MANAGEMENT

- Increases Root Mass
- Enhances Natural Defenses
- Increases Chlorophyll Content
- Improves Nutrient Content
- Improves Plant Quality

WATER MANAGEMENT

- Reduces Water Usage
- Improves Water Penetration
- Balances Water pH
- Reduces Surface Tension

Humates

- Increase Root Development, Total Leaf Area and Yields per Acre
- Increase Root Growth
- Increase Chlorophyll Content
- Increase Nutrient Uptake
- Improve Nutritional Values including Higher Protein Values
- Improve Soil Structure
- Improve Water Retention

Microbes

- Preserved in an all-natural preservative package, allowing the microbes to “awake” instantly (vs. chemical preservatives which take days) when mixed with water.
- *B. Subtillis (2 Strains)*—Known for their strong disease fighting properties.
- *B. Polymyxa*—Known for its ability to convert calcium and iron into immediately available forms.
- *B. Thuringiensis* —Generates an endotoxin lethal to both surface and sub-surface insects.
- *B. Licheniformis*—An aggressive primary and minor nutrient converter.
- *B. Amylolyquefaciens* —Most potent microbial producer of enzymes and has an very high protein export capacity.

Bio-Stimulant

- All Natural, Stable Bio-Stimulant
- Alkaloid Compound Derived from Plant Extracts
- Naturally Increases Biological Activity and Facilitates Beneficial Microbial Outcomes
- “Puts Microbes on Steroids”
- All Biological Benefits from Other Components are Significantly Increased



Product Offerings

BYOGROW	Contains the “Power of Three” components: Purified Humate, Naturally Occurring Microbes, and a Bio-Stimulant. It is a soil conditioner that restores soil to its natural state. It does not contain any mineral N-P-K components. It is designed for soils with high nutrient content as it will release bound nutrients allowing full advantage of previously purchased fertilizers.
BYOGROW NPK	Very similar in formulation to BYOGROW but with added N-P-K content. It is designed to provide the nutrient requirements of crops and grasses as well as the soil conditioning benefits of BYOGROW.
BYOGROW F	A liquid foliar fertilizer. The “humate” portion of the formulation contains a higher fulvic acid content to further aid with nutrient absorption. The product can be applied at various times during the growth cycle. See the BYOGROW application guide for specific crop recommendations.
BYODETOX	A soil conditioner with a specific ability to remediate salt contamination. It is designed for lower level salt (<3,000 ppm) contamination. The product provides an organic substructure with an extremely high ion exchange capacity binds salts. The carbon chain in ByoDetox then becomes a food supply for the natural soil and product’s adjunct microbes, which over time encapsulates salts. Special enzymes significantly increase the degradation process by facilitating the transfer and uptake of nutrient by the microbial population.
BYOHUMIC	100% humic acid-based soil conditioner. It is for use in soils with either high clays or sand content. Additionally, it can be used with any of the other BYOGROW products.
BYOGROW N-BURST	A liquid nitrogen donor containing a patented, heterocyclic organic nitrogen called urea-triazone. This compound outperforms other foliar nitrogen blends by remaining on the leaf surface longer for increased absorption, reduced ammonia volatilization, and greatly reduced burn potential and longer, more uniform nitrogen release. The “humate” portion of the formulation contains a higher fulvic acid content to further aid with nutrient absorption. Finally, it can be blended with all the other agriculture products.
BYOREDUCE	This product is a safe (triple-zero HMIS rated), economical solution to lower soil sodium and bicarbonate levels. It is a concentrate that is diluted and can be fed through various, conventional irrigation systems.

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