

## “The ROOT to Success!”

No one disputes that “SUCCESSFUL” Golf Course turf management requires an intensive, pro-active “top to bottom” approach. Most attempts to maintain ‘optimal, healthy turf conditions’ primarily include sound nutrition, IPM, a spray program, aeration, over seeding, top-dressing and irrigation. Note that only one of these mainstream maintenance practices (top-dressing) deals directly with soil amending. Research shows that most synthetic fertilizers, insecticides and fungicides negatively impact the bio-culture and root structure formations of turf grass. The relative importance of the rhizosphere cannot be overstated. It provides the comprehensive biological foundation for



ALL turf grasses AND ornamentals located throughout a golf course property. At a minimum, a diverse, well populated rhizosphere consists of ‘beneficial’ bacterium, symbiotic fungal forms, protozoa, enzymes, polysaccharides and other organic compounds. Green Professionals agree that a biologically live, healthy root zone is key to successful turf grass management in a ‘high performance’ golf course turf environment. Bottom-line, Leaves, Shoots & Crowns, Roots, Rhizomes & Stolons, are ALL co-dependent on **Healthy Soil and a Diverse Bio-Culture**.

## A Healthy, Diverse Rhizosphere

**BioPlex NEW Bio Basic** product technologies enable a healthy, viable rhizosphere from 2 management perspectives. (1) The SUPPLY side, (2) the MAINTENANCE side. With BioPlex’s NEW innovative bio-stimulants, bio-inoculates and diverse bio-substrates, a superintendent can now successfully maintain healthy roots and root zone biotics with the same targeted intensity employed with conventional maintenance practices. It is obvious that soils and bio-cultures should receive the elevated degree of maintenance attention that is commensurate with their relative importance to turf grass “optimized health and vigor”.

## Superior Raw Ingredients

**BioPlex Organics** carefully sources and selects only the highest quality bio-culture inoculates, soil amending and bio-stimulant raw ingredients. Most importantly, they are then formulated thru a proprietary ‘homogenization’ process, and completed under the most rigorous quality control standards available. BioPlex Organics 25 year commitment to ‘**innovation and excellence**’ is obvious throughout our unique ingredient complexes. At BioPlex Organics, a final product is no better than the sum of its parts. To that end, **Bio Basic ingredients include:** 16 Species Endo-Ecto Mycorrhiza Fungi, Bio Char, Shale Humus, Earthworm Processed Compost, Cricket Grass, Rock Mineral Complex, Complex of natural MEALS (derived from, but not limited to: Soybean Meal, Kelp Meal, Alfalfa Meal, Cottonseed Meal, Linseed Meal, Feather Meal, Bone Meal, Oyster Shell Meal, Shell Fish Meal and Wheat Meal), Structural Aggregate, Soluble Seaweed Extract and Soluble Humate Extract.

Why are these breakthrough technologies important? **BioPlex NEW Bio Basic** now offer the Superintendent the most comprehensive, targeted turf management tools directly related to the complete, safe and effective maintenance of the Rhizosphere... Bio-Inoculates, Bio-Substrates and Bio-Stimulation.

## Summary - Turf Related Benefits Resulting from “BIO BASIC”

1) Thatch Decomposition, 2) More Efficient Nutrient Uptake, 3) Greater Moisture Retention, 4) Reduced Soil Compaction, 5) pH Maintenance, 6) Improved Air & Water Infiltration, 7) Greater Root Density and Fibrosity, 8) Expanded Biomolecule Populations, 9) Disease Suppression, 10) Optimal Soil CEC, 11) Improved Micro-nutrient Uptake - Mg, Cu, Ca, Mo, Fe, 12) Drought Tolerance, 13) Superior Soil Aeration, 14) Reduced Nematode Infestations, 15) Optimal Root Hair and Lateral Root Formations.

**OVERVIEW: Golf Course Turf Grass Targeted Maintenance Options**

**Northern Bentgrass Top Dressing**

- Ultimate ROOT ZONE Rx

**Southern Bentgrass Top Dressing**

- Ultimate ROOT ZONE Rx

**Rye Fairway Maintenance**

- Fertile Fusion 12-4-6
- BIO BASIC 20-4-5 (50% SRON)
- Ultimate PLANT HEALTH 4-3-4
- Fulvic Fusion + PGIR's

**Spring Transition Maintenance**

- ALL Ocean 3-3-2
- Jump Start 8-0-8
- Ultimate PLANT HEALTH 4-3-4
- Fulvic Fusion + PGIR's

**Aeration Recovery**

- Kick Starter 5-10-5
- JUMP Start 8-0-8
- Terra LogiX
- Ultimate PLANT HEALTH 4-3-4
- Fulvic Fusion + PGIR's
- Ultimate ROOT ZONE Rx

**Overseed Starter & Root Stimulator**

- Kick Starter 5-10-5
- Terra LogiX
- ALL Ocean 3-3-2
- Ultimate ROOT ZONE Rx

**Root Stimulant Plant Response**

- Amino MAXX L-18 3-0-0
- Synergized BIOCARBON G
- ALL Ocean 3-3-2
- Fulvic Fusion + PGIR's

**Thatch Control & Digestion**

- Terra LogiX
- Micro LogiX
- Ultimate ROOT ZONE Rx
- Fulvic Fusion + PGIR's

**Soluble Salt's Digestion**

- Terra LogiX
- Micro LogiX

**Aquatic Pond & Lake Water Rx**

- Aqua LogiX (MUCK)
- Micro LogiX

**Root & Rhizophere Health**

- Ultimate ROOT ZONE Rx
- Synergized BIOCARBON G
- Water Sol. E-E Mycorrhizae
- Amino MAXX L-18 3-0-0
- Fulvic Fusion + PGIR's
- Terra LogiX
- Micro LogiX

**Concentrated Amino's & Iron Supplements**

- Emerald GREEN 5-Iron
- Amino MAXX L-18 3-0-0

**Summer & Fall Carb Stimulant**

- Poly CARB Catalyst
- Amino MAXX L-18 3-0-0
- Fulvic Fusion + PGIR's

**Winter Color Maintenance**

- Emerald GREEN 5-Iron
- Poly CARB Catalyst
- ALL Ocean 3-3-2
- Kick Starter 5-10-5
- Fulvic Fusion + PGIR's

**Stress Prevention Tools**

- Amino MAXX L-18 3-0-0
- STRESS STOPPER Plant & Soil Rehab Rx
- Poly CARB Catalyst
- Fulvic Fusion + PGIR's
- Synergized BIOCARBON G

**Stress Management Tools**

- Fulvic Fusion + PGIR's
- STRESS STOPPER Plant & Soil Rehab Rx
- Synergized BIOCARBON G

**Summer Maintenance**

- JUMP Start 8-0-8
- ALL Ocean 3-3-2
- Fertile Fusion 12-4-6
- Ultimate PLANT HEALTH 4-3-4
- Terra LogiX

**Green & Tee, Soluble Salt Neutralization**

- ROOT Zone Res-Q & Re-NU
- Ultimate ROOT ZONE Rx

**Bio-Baseline Supplements**

- Ultimate ROOT ZONE Rx
- STRESS STOPPER Plant & Soil Rehab Rx
- Synergized BIOCARBON G
- Water Sol. E-E Mycorrhizae

**Bio Induced Disease Suppression (BIDS)**

- Amino MAXX L-18 3-0-0
- STRESS STOPPER Plant & Soil Rehab Rx
- Ultimate ROOT ZONE Rx
- Fulvic Fusion + PGIR's

**Plant Growth Induced Rhizobacteria (PGIR)**

- Amino MAXX L-18 3-0-0
- Ultimate ROOT ZONE Rx
- Fulvic Fusion + PGIR's

