

# Trilogy TBS™

## TOTAL Bio-Stimulant

EARTHWORKS NATURAL ORGANIC PRODUCTS, INC.

**PLANT STIMULANT**  
**ROOT STIMULANT**  
**MICROBIAL STIMULANT**

**Trilogy TBS** is the **TOTAL Bio-Stimulant**. This unique blend provides a base line program for plant, root and microbial stimulation. **Trilogy TBS** supports strong plant growth and recovery, with a host of macro and micro nutrients; root stimulation with a concentration of humic and fulvic acids, and promotes a healthy and active microbial population with multiple forms of carbon. **Trilogy TBS** is a very dynamic product with over thirty raw materials to help build a stronger plant that will survive the rigorous pressures of today's golf, sports turf and ornamental plant environments. **Trilogy TBS** is ideal for all turf and landscape applications, and can be tanked mixed with most turf and ornamental products.

### The EarthWorks Process

Manufacturing of the liquids first involves the availability of excellent water. We begin by softening the water, followed by deionization and finally reverse osmosis. This creates water that is absent of total dissolved solids, alkalinity, carbonates and conductivity, which allows for an aqueous medium that can be fully saturated with the wide diversity of ingredients that go into the **Trilogy TBS** formula. The recipe is then completed through a process called "stacking", which simply means using a formula that allows for ingredient compatibility by following a proper sequence of mixing, which creates maximum saturation of the water by these nutrients. Finally, the products are micro-screened in order to create a non-plugging filtrate for trouble-free applications.

The EarthWorks Liquid Organics are the most complex formulas available, and are developed to work synergistically with each other and with other nutrient based products. Used on a "small but frequent" basis, **Trilogy TBS** will become a staple in any turf management program.

**EarthWorks™**  
Natural Organic Products

1500 Uhler Rd.  
Easton, PA 18040  
**800-732-8873**  
Fax: 610-250-7840  
soilfirst.com

Available in a 2 x 2.5 box, 15, 30 and 55 gallon drums.

## LIQUID ORGANICS

*Chelated  
Trace Nutrients*

*Phosphorus  
& Potassium*

*Humic &  
Fulvic Acids*

*Fish Meal*

*Kelp Extracts*

*Surfactants*

*Carbohydrates*



# Trilogy TBS™ *TOTAL Bio-Stimulant*

**Trilogy TBS** is the “TOTAL Bio-Stimulant” addressing plant, root and microbial needs. The “bio” in bio-stimulant addresses much more than just the plant, and **Trilogy TBS** addresses the needs of the entire plant/soil matrix. In today’s high pressure turf and ornamental markets, having a total bio-stimulant in one package will not only provide results, but will also make applications easier. **Trilogy TBS** will reduce plant stress, open tight soils, release nutrients from the soil, sequester salts and promote deep rooting. Compare the quality and volume of ingredients in Trilogy to any other bio-stimulant and you will see the EarthWorks advantage. The following ingredients make up **Trilogy TBS**:

**Three forms of soil surfactants and penetrants:** Yucca Schidigera, ammonium lauryl sulfate and coconut oil base surfactant are all designed to help move into the soil to stimulate root growth and provide a better environment for beneficial micro-organisms.

**Humic and Fulvic Acids:** An alkaline extract of geologically concentrated humus, rich in organic acids that stimulate root growth and open tight soils. They also act as chelating agents for micro-nutrients and perform as sequestering agents to help fracture bonds between nutrients.

**North Atlantic Kelp Extract:** Rich in over 60 minerals, 21 Amino Acids and 12 Vitamins, ascophyllum nodosum is also a rich source of plant gibberellins and cytokinins which act as plant growth regulators. Kelp extract also provides muco-polysaccarides, which are complex sugars, and along with its vitamins, minerals and amino acids greatly assists in feeding soil micro flora.

**Ocean Fish:** A specially processed liquid fish high in specific gravity that contains the highest amounts of nitrogen, phosphorus, potassium and micronutrients. Homogenized, standardized and stabilized with sulfuric acid which is a soil source of sulfur.

**Complexed Carbohydrates:** Black strap molasses, Brewex and CLS ~ all of which are short chained carbon sources that are extremely available forms of energy for micro-organisms, as well as an excellent source of trace minerals such as iron, copper and zinc, as well as sulfur.

**Trace Minerals:** Consisting of copper, boron, zinc, manganese, magnesium, cobalt, selenium, iron and silica chelated with RL-37, which is used to create “clustered” water and places a charge on trace minerals to produce a colloidal suspension.

**Phosphoric Acid:** Food grade 85% used to stabilize pH and provide readily available phosphorus.

**Potassium Hydroxide:** A low salt index source of potassium to help with sugar transfer, stalk strength and disease resistance.

**Magnesium Sulfate:** A soluble source of both magnesium and sulfur ~ magnesium is required for chlorophyll production and enzyme synthesis; sulfur is necessary for proper protein production for the plant.

**Vitamin Complex:** Ascorbic Acid, D-Alpha Tocopherol - Vitamin E, Vitamin B-complex and Vitamin B-12 all of which act as powerful anti-oxidants for microbes, helping to stimulate the proliferation of certain bacteria, and protozoa.

**Bio-Net:** Fermentation soluble of dairy whey, and corn distillates which contain many bioactive components such as organic acids, B-vitamins, amino acids and peptides, trace minerals and enzymes.

## APPLICATION RATES & PROGRAMS:

**Greens & Tees** - 9-12 oz. per 1000 sq ft every two weeks. Increase frequency for highly compacted soils or sodium rich soil.

**Fairways** - 2.5 gallons per acre per month, increase rates to 3.5 gallons per acre on heavily compacted soil.

**Sport Fields** - 2 gallons per acre per month, increase rates to 3 gallons per acre on heavily compacted soil.

**Ornamentals** - 8 oz. per 2 gallons of water drenched into the soil.

**Transplants** - 10 oz. per 2 gallons of water drenched around roots at time of planting.

**Trilogy TBS** can be tank mixed with most turf products ~ a bench test is always recommended.

**SHAKE WELL BEFORE USING.**

*The EarthWorks Liquid Organics  
are the key to success when  
building a healthy environment.*

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Natural Organic Products