

FUNCTIONAL SOILS

FS-TREE

Functional soils (FS) microbial products offer a simple, cost effective solution to improving your tree and soil health, efficiently.

FS products are multi faceted, using specifically chosen fungal endophytes which will benefit your trees, shrubs, and parks.

FS products are safe for your landscapes and staff. Our proprietary blend is a key mechanism to effectively improve your tree health.

FS-TREE will be the best new tool in your toolbox.

Key Benefits

Enhanced Root Mass

- Larger root mass allows for more effective nutrient uptake and moisture utilization.

Stress Reduction

- FS-TREE utilizes microbes that help plants adapt to and tolerate environmental stress.

Nutrient Uptake

- Increased soil microbial activity and nutrient cycling means soil nutrients and fertilizer are used effectively.
- Soil fungi are integral to solubilizing phosphate minerals which means increased phosphate availability to the tree.

Moisture Utilization

- Increased root biomass and fine roots help trees and shrubs better access and uptake moisture, assisting with drought tolerance.

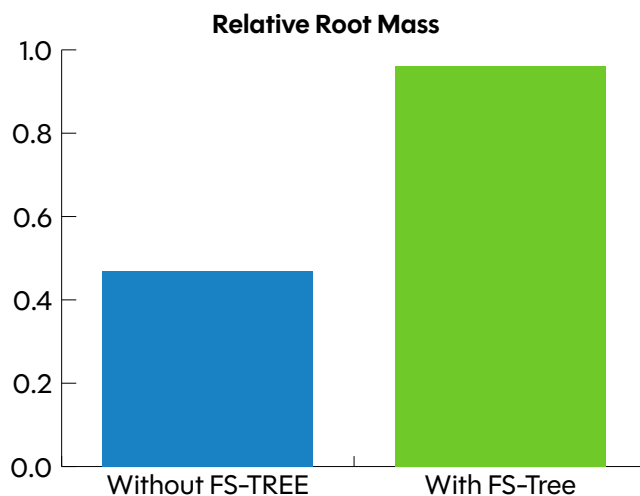
Application Methods

Capsules

- Encapsulated microbial inoculants are pre-proportioned for applying to new plantings.

Self-Agitating Powder

- Ideal for maintenance and improving health of existing plantings. Self-mixes to dissolve into water.



Components

Micronutrients

- Integral supply of mineral elements.
- Many of these nutrients are not included in traditional fertilizers and can become depleted over time.
- **FS-TREE** treatment products include complex minerals, providing a natural source of required Micronutrients.

Microbial Stimulants

- Included multiple low molecular weight organic compounds (LMOs) enhance plant growth.
- LMOs encourage root growth, increase stress tolerance and moisture/temperature extremes.
- Additional stimulation of the native microbial community is provided by concentrations of carbohydrates and other complex organic compounds.

Microbial Inoculants

Our proprietary blend of microbial inoculants offer a multi-faceted approach to improving tree health, productivity, and tolerance to environmental stress.

We incorporate four types of ingredients into **FS-TREE** inoculants with the goal of growing the healthiest turf possible through the establishment of a healthy soil microbiome.



With FS-TREE

Without FS-TREE

Ingredients

Active:

- Microbes Trichoderma species (4 strains: Beneficial fungal endophyte that solubilizes phosphate and more),
- Penicillium species (1 strain: Rhizosphere organism that solubilizes calcium and aluminum phosphates),
- Variovorax species (1 strain: Endophytic bacteria known to promote plant growth).
- Broad spectrum microbial additives are included for increased soil function

Non-Active:

- A diverse range of soluble mineral nutrients, including many micronutrients
- Low level nitrogen sources to assist with microbial establishment
- Soil wetting agents to help with microbe sorption into soil
- Other low molecular weight compounds to help with plant stress responses
- Soluble sugars to promote microbial growth in soil