Our Commitment
- Less water usage
- Cut costs of fertilizer (increase the efficiency of raw materials)
- ME-1 is so versatile; we can customize programs for any project

Our bio-fertility products focus on phosphate enhancement and nitrogen fixation. Microorganisms are an essential tool in sustainable and organic maintenance of healthy and disease-free plant life. ME-1 is a safe and effective solution for residential lawns, city parks, schools, and golf courses. Your company will experience less maintenance and more richness while using a product that is rated 000 in hazard data, and is non-pathogenic.

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GROWING MORE WITH LESS

Effective microorganisms supply a beneficial micro-ecology that improves soil structure, drainage, and water retention of the soil’s rhizosphere (root zone). Using Microbial Energy’s product with our added biodegradable soil conditioner can significantly improve plant quality during the months of extreme heat and moisture when disease pressure is at its greatest. By retaining more water, and increasing the efficiency of added fertilizers, the always growing costs of overhead can be dramatically reduced.

Microorganisms play an important role in the life cycle of soil. They are capable of nitrogen fixing, which is a process of breaking down nitrogen into vital ammonium necessary for plant processes and growth. Soil microbes are responsible for transforming raw elements from one chemical form to another. Important nutrients in the soil released by microbial activity are Nitrogen, Phosphorus, Sulfur, Iron, and others. This increases soil fertility by making nutrients available and raising CEC (Cation Exchange Capacity) levels.

Soil Requires More Than NPK!

When soil is depleted there are two methods for restoring soil fertility.
1. The soil can be left idle for several years allowing it to rebuild naturally or
2. Organic matter together with microbes and nutrients can be applied from an external source.

In the latter case, the microbes metabolize the organic matter turning it into humus (humus significantly influences the bulk density of soil and contributes to moisture and nutrient retention). This process replenishes and maintains long term soil fertility by providing optimal conditions for soil biological activity. Organic matter in the soil ensures a continuous food source for soil microbes. As the microbes metabolize organic matter, they help maintain good soil structure by developing compounds that cement small soil particles together into aggregates, allowing for both increased drainage and moisture retention. Microbes also change the organic matter into a point of stability. According to agriculture experts, chemically stable soil is important because of its ability to suppress disease.