ORGANIC SUSTAINABLE SOLUTIONS THROUGH MICROBIOLOGY

PureAg™
SIMPLE SOIL SCIENCE

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PRODUCT SUMMARY

PureAg Simple Soil Solution is a highly concentrated, diverse blend of bacteria and fungi. Our 1-gallon container is designed and formulated to inoculate 160 acres of agricultural land. This is accomplished by adding PureAg Simple Soil Solution to water in an aerated tank and brewing for 24 to 36 hours. This process activates the spores and they begin to grow. As the Colony Forming Units (CFUs) in Simple Soil Solution grow out the bacteria will double in population every 17 minutes.

These specifically selected bacteria (isolated from highly fertile soils) produce enzymes, and naturally adapt to soil conditions to provide the unique ability to fix both atmospheric and synthetic (chemical) nitrogen. These organisms are then isolated and custom fermented under aseptic conditions. This provides a pure culture to stimulate the in situ (on-site) growth phase to augment the indigenous soil bacteria. When added to formulated soil amendments they can create benefits in chelated mineral uptake by 200-300% and nitrogen utilization by 50-75%.

THESE BENEFITS RESULT IN:

- Increased nutrient retention
- Increased root formation
- Increased yield and quality
- Increased taste and sugar content
- Increased organic matter
- Increased cation exchange capacity
- Increased compost breakdown
- Reduced fertilization application
- Reduced crusting and clodding
- Reduced water demand
- Reduced residual chemical build-ups
- Reduced compost odors

In the case of nitrogen utilization, this prevents the volatilization and the leaching into the water table. Simple Soil Solution provides the ultimate organic advantage for a safe and effective, non pathogenic, microbial packed soil powerhouse!

After 24 hours, the organisms have consumed the provided food, which have grown out to very high population numbers, and the brew is ready to be placed into irrigation. The process is simple, and the results are huge.

Once the brew has grown out and is applied to the irrigation water, the delivered organisms continue to multiply by consuming carbon and fixing nitrogen in the soil. When the biology extricate what they consume they produce enzymes that solubilize nutrients so they can be absorbed and used by the plant. The fungi attach themselves to the roots and add miles of root hairs for the plant to reach out and collect nutrients. Together fungi and bacteria work to form spaces for each to thrive, leaving little or no room for harmful predators. Using Simple Soil Solution will increase the ability of the plant to convert solubilize nutrients while protecting the plant.

Without the proper soil biology, fertilizers and chemicals have a diminished ability to promote plant growth. By adding soil microbes, before, during and after harvesting you will help build a healthy soil, promote active microbial action and increase fertility in the soil profile.

Tilling soil is devastating to soil microbes because their environment becomes destroyed. Therefore, one of the best times to replenish microbes in the soil is after harvest, just after tilling or during the first irrigations.

There is no soil that does not benefit from adding soil microbes. In fact, many fertilizer suppliers remind users to replenish soil microbes as often as possible. Soil biology is important to successful yields, disease prevention and sustainability. The idea of building healthy soil is not new and takes time. It is important to look at soil biology as a program rather than an input. Adding diverse populations of soil biology continually over several years will improve the health of your plants, prevent disease, avoid nitrite loading, improve yields, and move you toward real sustainable practice.

Simple Soil Solution is easy to use and cannot be over applied. Once brewed the solution should be used within 24 to 36 hours. Application rates vary by crop. For the best results Simple Soil Solution should be used before planting begins. Great for row crops, orchards, vineyards, field crops, soil remediation, or any soil from desert to forest.