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## Bio-Tree & Shrub - Premium Nutritional Supplement and Soil Conditioner

### Product Characteristics

- Lower nitrogen levels reduce disease incidence and structural weakness.
  - Comprehensive array of nutrients addresses all but the most severe deficiencies.\*
  - Additional non-nutrient co-factors enable more efficient nutrient function.
  - Plant-sourced soil conditioners relieve compaction, enable deeper water, air and nutrient penetration and exchange.
  - Uses food grade and other highly absorbable nutrient sources which are low salt and pH neutral.
  - High humate content chelates nutrients for as-needed, when-need availability.
  - Multiple food sources promote growth in microbial populations, thus enhancing nutrient availability.
  - Liquid product is easy to mix, less damaging to equipment, and stays in solution much better.
  - Also available in a 12-4-4 formula with the identical quantity of organics.
- \* Addressed by our other Health-Supporting products.

## Application Methods: Bio-Tree & Shrub FERTILIZER - SOIL CONDITIONER ROOT DEVELOPER with BIOLOGICAL SUPPORT

Like other Nature's Pro products, Bio-Tree & Shrub addresses all three aspects of soil and plant nutrition:

1. A broad spectrum of primary, secondary and micro-nutrients for plant nutrition, many of them plant-derived or food grade sources, all in a low salt, low chloride, pH neutral formulation.
2. A comprehensive blend of food resources for the soil's biology.
3. Various Soil Conditioners, including plant-sourced surfactants.

How you apply the product is dependent upon your objectives, and in some cases may require the addition of it's companion products, Bio-AER and Bio-Green, and potentially a mycorrhizal amendment. Our thanks to Mark Mann, Forester and researcher, for assisting us in developing these three advanced application protocols.

### General Maintenance Program

This protocol is intended to incorporate all of the benefits of Bio-Tree & Shrub both nutritionally and through enhanced soil health. In addition to providing all of the nutrients, the extended grid pattern is intended to encourage greater expansion of the population and activity of soil biology while improving soil condition and relieving compaction. The goal is to promote expansion of the feeder root system and better exchange of nutrients through microbiology and aeration.

**Mix Rate, 1:39** - Mix 5 gallons of Bio-Tree & Shrub with 195 gallons of quality water.



Nature's Pro Products are marketed exclusively by Green Pro Solutions, LLC

### Click for Label Information



**Application** - 5 gallons per DBH (Diameter at Breast Height - considered to be 4.5' high) in an 18" grid pattern from the trunk to the edge of the tree's crown every three years.



See "Nutritional Maintenance Programs for Trees & Shrubs" for a comprehensive explanation of application procedures for plants of all sizes and locations Street Trees for instance. **Example:** 30" tree would need 150G of material.

## Critical Care Treatment

This application program is designed specifically for trees under stress, in decline or with various nutritional deficiencies like chlorosis. The focus is on targeted nutritional support that will be immediately available to the tree to generate the quickest response. Therefore, application is targeted at the greatest quantity of small, highly absorptive root hairs closest to the root crown.

**Mix Rate, 1:19** - Mix 5 gallons of Bio-Tree & Shrub with 95 gallons of quality water.

**Application** - 1 gallon per DBH using saturation injections beginning immediately next to the root flair. Proceed in concentric circles making certain that the liquid is filling all available soil pores, like an underground drench. On smaller trees under 15", the correct amount of product will probably be within 4' of the trunk. For larger trees, all of the product will still be injected within 7' of the trunk. Application Frequency - every other year. **Example:** 30" tree would need 30G of material.



For chlorotic trees, add 1 oz. of **Bio-Green** (concentrated formulation of chelated micronutrients) per DBH of tree, or 1/2 gallon per 55 gallons of water. Mycorrhizae can also be added.



Please note that many trees, just by their location, are always under stress. Trees surrounded by sidewalk or pavement or are too close to buildings are prime examples. **This program is frequent used following TGR application.**

## Move It Up a Notch

Horticultural Soil Testing will move your diagnostic, remediation, and PHC program to another level. There are significant differences and benefits to using a nutrient-availability test like Prescription Soil Analysis, instead of a typical ag test. Find out more at [www.PrescriptionsSoilanalysis.com](http://www.PrescriptionsSoilanalysis.com) or call Keith at 866-609-4172 x1. The Test is the Difference!

## Nutritional Program

If soil conditioning and microbial support are less important, than a nutritionally targeted application may be acceptable. Or, this approach can be alternated with the General Maintenance Program every three years. This protocol has all of the advantages of an Emergency Treatment but with less product and less frequent applications.



**Mix Rate, 1:19** - Mix 5 gallons of Bio-Tree & Shrub with 95 gallons of quality water.

**Application** - 1 gallon per DBH using saturation injections every three years beginning immediately next to the root flair. Proceed in concentric circles making certain that the liquid is filling all available soil pores, as with the **Critical Care Treatment**.

The **Critical Care Treatment** or the **Nutritional Program** protocols are the only application methods that truly address a plants nutritional needs, while still enhancing biological activity and soil conditioning, critical components in stressful environments. **Bio-AER** is recommended as a follow up application under the balance of the canopy and beyond to condition the soil, relieve compaction, and enable fine root hair development beyond the root crown. **Bio-Green** can help with nutrient deficiencies. Check [www.NaturesPro.com](http://www.NaturesPro.com) for more information.

Subsequent Bio-Tree & Shrub applications may move beyond the immediate root crown area as the fine root hair concentration expands outward.

**Equipment** - Although these two application methods do not address broader soil conditioning issues nor support an expanded soil biology under the entire canopy and beyond, it's targeted protocol uses significantly less product and can be applied with smaller equipment.

The Trinity 30G wheeled sprayer, with an application rate of 6G per minute, is a perfect match for sub-surface injections. The Multipurpose Probe with additional attachments is also ideal for injecting TGR's and making foliar and turf applications, particularly in remote areas.

