

Tree Health Depends On Soil Health

Trees evolved in forests, where their needs are met perfectly. Trees in the forest are fertilized annually with nutrients provided by the decomposition of fallen leaf litter, twigs, branches and logs.

This process becomes disrupted in urban settings. Raking and disposal of leaves every fall deprives the soil of its chance to renew and build fertility. Lowered levels of nutrients in the soil can reduce a tree's ability to collect energy, grow, and defend itself against pest attack.

The prominence of turf grass is also a major factor affecting tree health in urban settings. Studies have demonstrated that roots of grass plants are aggressive competitors for water, nutrients and rooting space in the soil. Trees growing without competition from grass grow five times the volume of roots in a given area compared to trees with grass growing around them.

Rainbow Treecare Has Developed Three Specific Formulas

These formulas are designed to deliver specific nutrient levels for varied tree situations, and the nutrients in each one are released slowly over two years into the soil. Our formulas also contain biochar to increase water and fertilizer retention. The biochar acts as storage, holding that material until the plant roots need it.

We apply these formulas through a liquid that is injected into the soil under the canopy of your trees. An injection probe is inserted 6-8 inches into the soil, below the level of the roots of turf grass. The injection sites are spaced approximately 2 1/2 feet apart in a grid pattern throughout the root zone. In some soils the material may come to the surface, causing increased grass growth and/or color at the injection sites.

1. Rainbow Maintenance

Our most popular formula for trees that are in established and urban landscapes, this formula is used to supplement tree nutrition. Rainbow Maintenance provides approximately 1 lb of nitrogen per 1,000 square feet of area treated.

2. Rainbow Pro-Growth

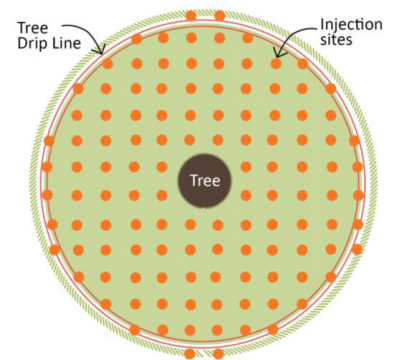
This formula is used for trees in new or disturbed soils where nutrients cannot be fully utilized, or for juvenile trees in moderate soils. Rainbow Pro-Growth provides approximately 2 lbs of nitrogen per 1,000 square feet of area treated.

3. Rainbow Booster

A formula that is designed for trees in environments with little or no organic matter and low levels of nutrients in the soil. It is also suited for young trees in new soils. Rainbow Booster provides approximately 4 lbs of nitrogen per 1,000 square feet of area treated.



Typical forest floor showing decomposing organic matter.



Approximate treatment pattern for rootcare fertilization.



Soil treatment by injecting the nutrients into the ground

