

Fertilize or don't fertilize? The final word.

THERE IS MUCH CONTROVERSY AND DISAGREEMENT REGARDING THE APPLICATION OF TREE FERTILIZERS IN THE LANDSCAPE. Here's the reality: trees in the forest get their nutrients from the nutrient recycling of the forest litter, rotting leaves, twigs, etc. Generally speaking, in the landscape, leaves, twigs and litter are removed and turf grass is grown. As a result, there's no natural nutrient source and to make matters worse, the turf grass is competing for what little nutrients there are. Fertilizing the turf is not enough for the tree and neither is atmospheric nitrogen. If, however, your trees are in a large, good quality mulch bed then you are more closely mimicking what occurs in the forest floor. Trees in the landscape that are not fertilized are in a state of low vigor and tissue sampling will prove that. Trees in a state of low vigor are susceptible to disease and subsequent structural damage and, in extremes, death. Therefore, it is important that the cultural practice of applying sensible amounts of tree fertilizer should be implemented on a regular basis. The activity of Doggett fertilizers is designed to mimic closely what occurs in the forest floor. The nutrient ingredients in the Doggett formulations are of the highest quality of low salt, chloride-free, slow-release, feed grade materials, complying with the ANSI300 standard for tree fertilizers.

Do not over fertilize. This is not a case of "more is better." These fertilizers and their recommendations were designed to improve vigor and color. They were not designed to push growth, but to enable growth and, in more mature trees, to improve longevity. For the best results, follow label recommendations and stay current with the research coming out of The Tree Fund.

Doggett supports The Tree Fund.

As a former board member of The Tree Fund, Roger Mellick, V.P. of Doggett Corporation continues to support its efforts. The Tree Fund is the combined offshoot of the International Society of Arboriculture Research Trust and The National Arborist Foundation. The Tree Fund supports research that promotes optimum tree health and survival. It also funds scholarships through the Robert Felix Memorial Fund. Join Doggett in supporting The Tree Fund. For information about how you can contribute, visit www.treefund.org today.



Printed on 50% recycled
fiber, 20% post-consumer
waste paper



ADDRESS SERVICE REQUESTED
RETURN POSTAGE GUARANTEED

31 CHERRY STREET
LEBANON, NEW JERSEY
08833-09987

THE DOGGETT CORPORATION

Responsible tree nutrition is at the root of our business.

The Doggett Corporation recognized early on that professional arborists, horticulturalists and landscapers are the stewards of trees and shrubs in the landscape. Knowing that one of the most important requirements of this charge is providing proper nutrition, we developed a line of fertilizers specifically designed for trees and shrubs. Since 1945, we have been researching and developing quality fertilizers and soil conditioners.

Today, Doggett is the leading producer of these professional products, used worldwide by respected horticultural institutions and tree care companies.

To those of you who know us and use our products, thank you. To those of you who are learning about us for the first time, we welcome you and assure you that you've come to the right place if you're looking for the best.

Doggett, providing the best for the trees and for the tree care professional.

THE SOURCE FOR FERTILIZATION ALSO BRINGS YOU INFORMATION.

DOGGETT CORPORATION has compiled an extensive library on tree and shrub nutrition and fertilization. Soon you'll be able to access university and public sector research on everything from nutritional requirements for specific species to timing and application of a variety of corrective measures. We hope this clearinghouse of tree and shrub care information will be helpful to you.

Please feel free to contact us with any inquiries you may have.

Doggett Corporation ■ 30 Cherry Street, Lebanon, New Jersey 08833
Phone 1-800-448-1862 ■ Fax (908) 236-7716 ■ doggettcorp@earthlink.net

To view our catalog online, go to www.doggettcorp.com

HOT
DOGGETT

WHAT'S
NEW & BEST
IN THE
WORLD OF
TREE
NUTRIENTS




Look who uses Doggett products.



GARY R. MULLANE, ASCA • Tree Consultant, Mullane Associates, South Carolina; member of the NAA (now TCIA), the American Society of Consulting Arborists and the International Society of Arboriculture; recipient of numerous NAA awards, as well as an Honorary Life Membership in the International Society of Arboriculture. **Doggett customer since 1986.**



LAUREN S. LANPHEAR • Certified Arborist, Forest City Tree Protection Co., Ohio; member and past president of the Ohio Chapter of the International Society of Arboriculture (ISA); past president of TCIA; recipient of ISA's Buckeye Award and Honorary Life Member Award, as well as TCIA's Award of Merit. **Doggett customer since 1983.**



WILLIAM E. DE VOS • Consulting Arborist, Treeworks Ltd., Vermont; member of the American College of Forensic Examiners and the NAA (now TCIA); member and past president of the New England chapter of the International Society of Arboriculture; recipient of numerous awards from the NAA and TCIA. **Doggett customer since 1988.**

Mycorrhizae: simplified.

MORE THAN 90 PERCENT OF PLANT SPECIES IN THEIR NATURAL ENVIRONMENT FORM A SYMBIOTIC ARRANGEMENT with beneficial soil fungi called mycorrhizal fungi. The roots are colonized by the soil fungus, which attaches to the roots and extends far into the surrounding soil environment. The colonized root is called a mycorrhiza. Mycorrhizae are fundamental to plant establishment, supplying the water and nutrients needed for survival and, in exchange, receiving essential sugars and other compounds supplied by the plant.

What do Mycorrhizae do for plants? These mycorrhizal fungi increase the surface absorbing area of roots by 10 to 1,000 times, thereby greatly improving the ability of the plants to utilize added fertilizers. Estimates of amounts of mycorrhizal filaments present in colonized soil associated with plants are astonishing. Several miles of fungal filaments can be present in less than a thimbleful of soil. These absorbing filaments make sure that more added fertilizer ends up in the plant and less is wasted. Mycorrhizal fungi not only increase the surface absorbing area of roots, they also release enzymes that microbially activate controlled release forms of nitrogen during periods of active growth when they are needed most. For more information, contact 1-800-448-1862.

Proper nutrient sampling.

THE DEFINITIVE WAY TO UNDERSTAND THE NUTRIENT HEALTH OF YOUR TREES AND SHRUBS is to do comprehensive soil and tissue testing. Most of the time, this may not be necessary due to the common known givens. However, when a deficiency or certain conditions are apparent, then soil and tissue sampling goes a long way to getting the answers.

A soil sample alone is not enough. Many times, results in the soil do not correspond to conditions in the tissue. The best example of this is if you sample throughout the country you'll generally find adequate amounts of phosphorous. However, phosphorous ties up in the soil and is unavailable to the tree, therefore, it may be necessary to apply small amounts of phosphorous available in most fertilizer formulations. Many nutrients tie up in the soil under certain Ph conditions.

Most trees are compartmentalized, so it is proper to use the correct methods for sampling. Contact the Doggett Corporation for in-depth information on proper methods, as well as directions to a lab near your facility. Soil and tissue sampling is another important tool for the professional arborist's plant health care program.

Current available Doggett products

● **XL 32-7-7 Injecto Feed**

A high, slow-release Nitrogen complete fertilizer for sub-soil injection into the root zone. Based on urea formaldehyde technology, Injecto Feed provides, sustained feeding that will not produce an undesirable flush of growth. XL Injecto Feed provides both macro- and micro-nutrients for virtual complete plant nutrition.



● **XL 30-7-10 Evergreen Special**

All of the desirable nitrogen characteristics of Injecto Feed plus the addition of sulfur, iron and a slightly higher acid content, make Evergreen Special the perfect choice for the professional arborist.

● **XL 12-24-24 Fall Tree Fertilizer**

Because plant nutrient requirements change with the season, this special formulation has a lower nitrogen analysis, but a high P and K content. These specific ratios, combined with micro-nutrients, help protect the plant through its dormant stage, and remain available for the desirable spring green-up.

● **XL 5-30-30 Root Pusher Tree Fertilizer**

Specifically designed for late summer and fall use, Root Pusher will promote good wintering and fast spring starts without stimulating soft growth that is susceptible to damage.

● **XL 25-5-10 Palm Promoter**

A high nitrogen analysis complete fertilizer; formulated with additional micro-nutrients, specifically for sub-soil injection around Palm trees to provide sustained feeding throughout their long growing season.

● **Pride 20-12-8** A slow-release granular fertilizer specifically intended for auger hole application or may be spread on the soil surface around and under shrubs.

● **XL 30-10-10 Spray-Fol**

A high analysis water-soluble fertilizer for foliar applications on fruit, shade, evergreens and other plants such as shrubs and plant beds. Spray-Fol has the additional advantage of being compatible with most commonly used fungicides and insecticides, thus saving time and money by making one, fast-acting application. May also be injected using a standard tree needle.

● **XL 20-20-20 Soluble Fertilizer Concentrate**

A water-soluble complete fertilizer with micro-nutrients for foliar or drench application. May be used on trees, plant beds, vegetables and flower gardens to promote rapid improvement in growth rates and appearance.

● **10-22-22 Tree Rooter**

A professional formulation for use at planting and transplanting to reduce shock and promote root growth. Contains essential macro- and micro-elements, both organic and inorganic, combined with humic acid, bone meal and a water suspending agent to keep product in the root zone.

● **15-2-5 Organic Base**

A homogeneous organic fertilizer formulated for dry application in auger holes around and under the drip line of trees. Virtually odor and dust free to reduce customer concerns.

● **15-15-20 Doggett's Drought Special**

A prescription type formula specifically designed to regenerate root during and after drought conditions. Extremely low in salt, all slow-release nitrogen, very high percentage of humate. Guaranteed to enhance the recovery of drought stricken trees and shrubs.

● **20-14-10 Doggett's Organic**

An organic based all soluble tree and shrub fertilizer for soil injection into the root area. Humates, Kelp, Vitamin B1, yeast protein, yucca and sugar combine with standard elements to bring the best agronomic qualities, as an alternative to more synthetic type formulations.

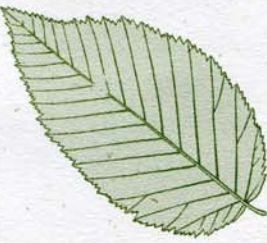


● **3-6-3 100% Natural Organic**

100% organic fertilizer with the same attributes as our Organic Base, with a slightly different ratio of macro-nutrients. Ideal for applications on small or newly set trees.

● **Nutri-Sul 90**

Injected into the root zone, Nutri-Sul 90 lowers the pH of the soil by creating sulfuric acid. Acidifying the soil improves the ability of the plant to uptake nutrients, primarily iron, thereby making your fertilizer treatment more effective.



● **Doggett's Natural Resource**

Applied as a shallow sub-soil injection, this Humic Acid based totally organic product not only improves the uptake ability of the plant, but also increases the water holding capacity of the soil, reduces soil tension and provides vital elements for plant energy production.

● **XL-Iron Chelate**

A foliar applied or injectable form of chelated iron used to correct chlorosis in trees, shrubs and other plants in acid soils. Provides quick action for improving plant appearance.

Other superior quality Secondary Elements from Doggett

- Manganese Chelate 12%**
- Zinc Chelate 14%**
- Magnesium Chelate 4%**

Ingredients:

XL Fertilizers are manufactured from the finest feed grade materials. Chlorides and Sulfates are not used.

Tracer Dye and Penetrants

XL Fertilizers contain a tracer dye for convenience and visibility of application. Special Penetrants are incorporated to improve distribution and absorption by foliage and roots.