Arbor Associates Inc.

11456 Newkirk St. Dallas TX 75229
214-357-3436 joew@arborassociates.com

Tree Fertilization Pamphlet

Trees should typically be fertilized during the spring or fall with the exact frequency depending on the tree's age and health. Mature trees may only need one application, while younger or struggling trees might benefit from more applications per year.

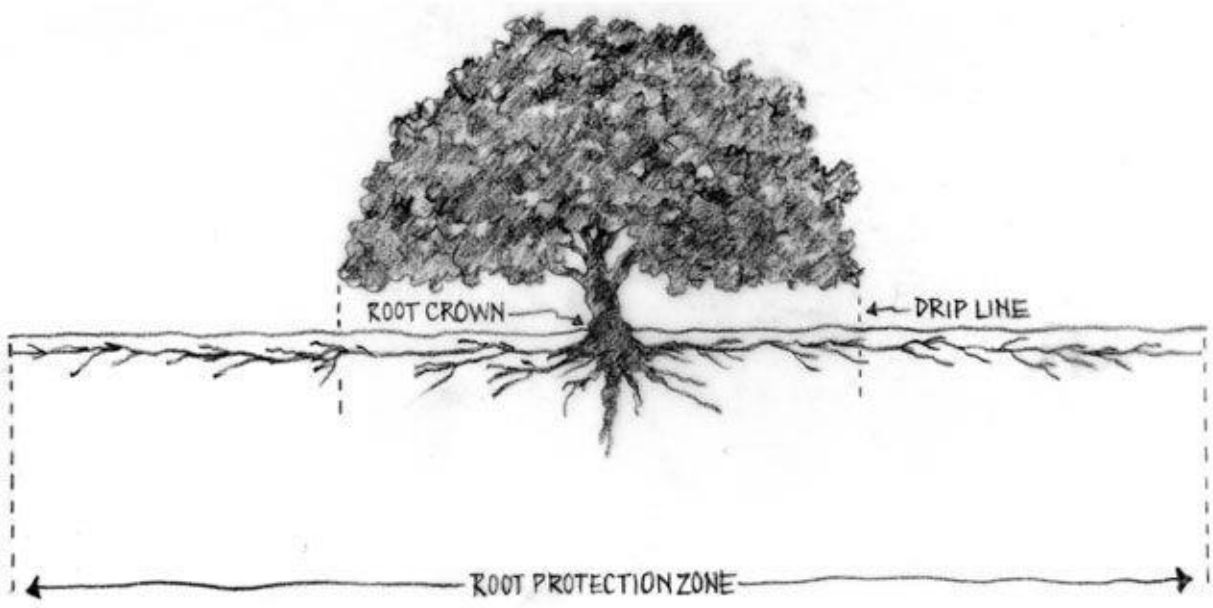

Figure 1 Root Zones. Drawing is from "Wise Watering Practices" (K. Zuzek, University of Minnesota Extension)

We use a deep root fertilization technique (DRF), injecting nutrients within the dripline of each tree.

Best Times for fertilization applications

Early spring**:** for leaf and branch growth. Fall: To strengthen roots and store energy for winter.

Why Fertilize Your Trees? In their natural habitat, trees thrive in nutrient-rich soils filled with decomposing leaves, organic matter, and other natural elements. But in urban environments, trees are often planted in landscapes where the leaves and organic matter are removed, creating nutrient-deficient soils, surrounded by turf grass, compacted earth, or other hardscape features that limit their access to nutrients.

Tree fertilization helps to bridge this gap by *Enhancing Growth*, *Increasing Tree Health* which protects from pests and/or diseases, and *Sustains Longevity* of the life of the tree.

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Deep Root Fertilization (DRF) is injecting water soluble fertilizer using a high pressure pump within the top 8 to 12 inches into the soil. Recommended products not only serve to improve the soil but provide specific nutrients for your trees growth. This deep root injection bypasses both turf grass and shrubs root zones. DRF is applied directly into the root zone for each tree.

We systematically inject a water soluble fertilizer for each tree in a grid like pattern, 2 to 3 feet apart, within the drip line from the root flare. (see figure 2.)

Application rates are 5 gallons per inch of diameter at breast height (DBH).

Newly planted trees benefit from more frequent applications.
- Newly planted trees – every 3 months
- Stressed trees – every 3 to 6 months (as needed)
- Juvenile trees – every 6 month to 1 year
- Mature trees – every 3 years

Each injection site has some over flow which can benefit the turf grass.

Injection sites within the dripline grow faster and greener.

Figure 2 Injection sites within the dripline

Soil testing can be conducted to get an exact soil composition for the best formulation to ensure overall tree health.