



# LEARNING CENTER

## TREE GROWTH REGULATORS (TGR'S)

### What are tree growth regulators?

Tree growth regulators reduce a tree's growth rate by 40-70% over a three year period. TGR's are applied to the soil and absorbed through the roots. TGR's gently slow the growth of trees and redirect the stored energy to produce defense chemicals, fibrous root production and other uses. This reallocation of energy makes your tree more healthy and durable, and at the same time controls it's size.

### What TGR's do for your tree?

- Maintain the visual aesthetics of your landscape.
- Reduce the amount of live wood needing to be pruned.
- Slow down overcrowding of competing trees.
- Maintain a smaller, more appropriate tree size when there is a restricted root zone.
- Maintain vista views with lesser need for pruning.
- Extend the time in between recommended pruning.
- Minimize intrusion by power companies.

### The benefits don't stop!

As a result of growth reduction, more awesome benefits are made available for your tree.

- Stimulate fine root production.
- Improve drought and heat resistance.
- Higher tolerance to certain diseases.
- Leaves are greener with higher amounts of chlorophyll.
- Leaves have an enhanced protective barrier (thicker leaf surface with dense leaf hairs).
- Reduce water loss through transpiration.

### Slower Growing Trees

It is a common misconception that a tree that grows faster is healthier than a slower growing tree. To many people's surprise, a slower growing tree will outlive a tree that grows faster, especially in an urban environment where space to grow and nutrients are limited.

