

# ROOT WATERING SYSTEM: PROVEN RESULTS

## THE CHALLENGE:

Many transplanted trees and shrubs suffer from low survival rate, mainly due to poor root system establishment. It's difficult for these plants to get the water, oxygen and nutrients they need. The Rain Bird® Root Watering System (RWS) is designed to deliver water, oxygen and nutrients directly to tree and shrub root systems, helping them to get established soon after transplanting.

## THE STUDY:



To test the effect of deep-root watering, the University of Arizona School of Plant Sciences conducted a study designed by plant scientist and researcher, Dr. Ursula Schuch.

The research included 48 ash trees at a test site. Half of the trees were irrigated with a pair of Rain Bird® RWS-M 18" basket weave canisters that were installed in-ground near the root ball. The other half was surface irrigated with bubblers near the tree stem. All trees received the same volume of water, at the same frequency.

The trees were harvested 3, 8 and 13 months after transplanting, and data was collected.

## THE IMPACT:

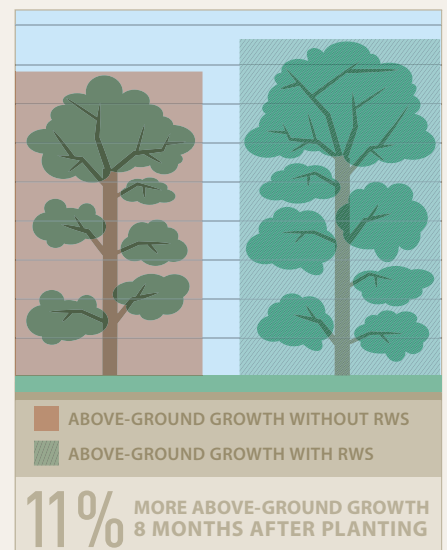
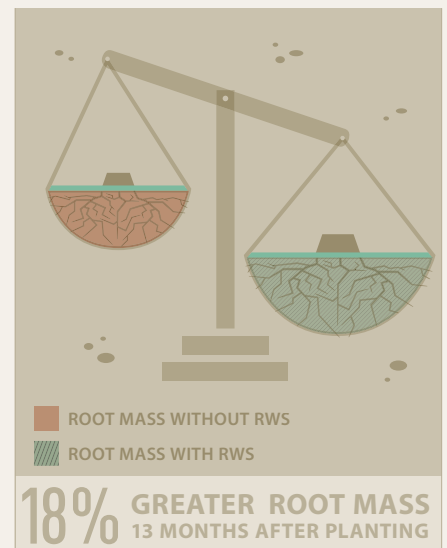
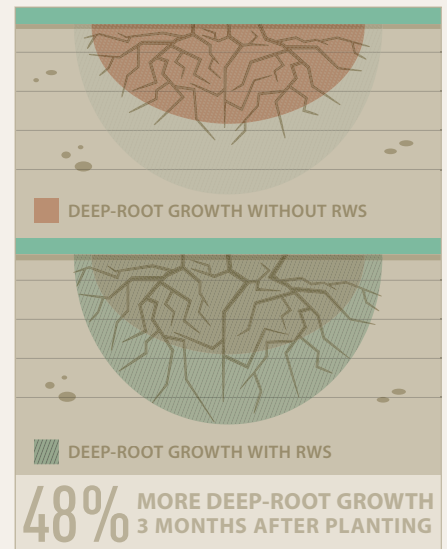
**Deep-Root Growth:** Early deep-root growth greatly improves the likelihood of survival for transplanted trees and shrubs. It allows better anchoring (critical in windy conditions) and also provides a larger reservoir of available soil moisture.

**Root Mass:** Greater root mass means more water, oxygen and nutrient uptake, resulting in a healthier, faster growing tree.

To learn more about the Rain Bird® RWS, visit [www.rainbird.com/RWS](http://www.rainbird.com/RWS).



## THE RESULTS:



Trees that received root watering from the Rain Bird® RWS measured more deep-root growth, greater root mass and better above-ground growth than surface-watered trees.

