

New Tree Watering Challenges

OVERVIEW

From a 1996 Tree Physiology report, the amount of transpiration - or water used and released by the tree - determined by sap flow measurements was roughly 1.5" per month during spring months up to around 2" per month during hot, dry summer months¹.

Converting this to gallons of water, on average, the table on the right shows how much water a tree uses, based on its size.

Rootball Size	Gallons/ Month
20"	2.6
24"	3.7
30"	5.8
36"	8.4
48"	14.8

OVER 90% OF WATER PRESCRIBED FOR TREE IRRIGATION IS *NOT* USED BY THE TREE.

TYPICAL WATER PRESCRIPTIONS AND EVAPORATION

On average, 2 inch oak trees need 2 to 3 gallons per day, according to a University of Florida study², with the leading tree watering bag prescribing 20-gallons per week.

However, the reason so much water is prescribed versus what studies show is actually used by the trees is due to a variety of factors including soil type (and how moisture can be stored in the soil), drainage, runoff, and evaporation.

Typical slow release irrigation and watering methods use 80+ gallons per month. 2" caliper trees require roughly 6 - 8 gallons per month.

This is a waste of 72-74 gallons of water PER TREE!

Solution: TreeDiaper®



TreeDiaper® Smart Watering Mats will maximize water usage to irrigate new tree. Using super absorbent polymers, **TreeDiaper®** stores water and slow releases as the soil dries and refills with storm water and other irrigation.

This means the water intended to be used for irrigation is ACTUALLY used to irrigate. **TreeDiaper® will reduce water usage by up to 99%.**

TreeDiaper® has been tested for over 6-years and is the most optimal product to conserve water to irrigate new trees for establishment. It's more efficient than drip irrigation and a league beyond tree watering bags. Learn more at ecoturfmidwest.com/treed diaper and start conserving water today



"TreeDiaper has proven to be an amazing cost saving device for us, allowing for fewer watering visits, greater growth rates and lower mortality. This allows for the environmental and aesthetic benefits to accrue more quickly and for us to plant even more trees. TreeDiaper has quickly become a "must-have" on many of our planting sites."

Barry Ward
Trees for Houston Executive Director

1. Dawson, Todd, Tree Physiology, 1996 (16) 263-272; 2. Professor Ed Gilman's site <http://hort.ifas.ufl.edu/woody/irrigation2.shtml>