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Organization:

Title:

Comments: Jellico Vegetation Management EA - I am in opposition. Consideration for understory providing a microenvironment for many living things should be a factor.

Loss of trees will contribute to climate change and release carbon back into the atmosphere. At a time where we see shifts in weather, it is bad to remove the trees. Trees soak up a lot of water.

Trees can absorb between 10 and 150 gallons of water daily, but less than 5% of that water remains in the plant for growth. A 100-foot-tall tree can absorb 11,000 gallons of water and release it back into the air as oxygen and water vapor during a single growing season. A typical street tree's crown can intercept between 760 gallons to 3000 gallons per tree per year, depending on the species and age. A mature red maple tree can absorb at least five gallons of water each week.

USDA Forest Service

Water & Forests

This is how a tree breathes. HOW MUCH WATER DOES A TREE DRINK? A healthy 100-foot-tall tree has about 200,000 leaves. A tree this size can take 11,000 gallons of water from the soil and release it into the air again, as oxygen and water vapor, in a single growing season.

Purdue University

Purdue Landscape Report: How do trees use water?

Sep 2, 2021 - Trees can absorb between 10 and 150 gallons of water daily, yet of all the water absorbed by plants, less than 5% remains in the plant for growth. They rely on available water in the soil to "rehydrate" during the nighttime hours, replacing the water loss during the daytime hours.

skyfrogtreeservice.com

5 Best Trees For Absorbing Excess Water In Yards

May 19, 2023 - Red Maple. Red maple trees are named for their brilliant red fall foliage. These gorgeous, scarlet-leaved trees are excellent at absorbing excess water. A mature red maple tree is capable of absorbing at least five gallons of water each week. Planting a red maple tree in your yard is a great way to beautify your property and deal with excess water.

scfc.gov

TREES TO OFFSET STORMWATER - South Carolina Forestry Commission

Each tree plays an important role in stormwater management. For example, based on the GIC's review of multiple studies of canopy rainfall interception, a typical street tree's crown can intercept between 760 gallons to 3000 gallons per tree per year, depending on the species and age.

Factors that affect how much water a tree absorbs include:

available water, sun, nutrients, species, individual characteristics, humidity, air temperature, and wind.

During the day, trees use water from the soil to "rehydrate" and replace the water lost through transpiration, which is the evaporation of water from trees out and into the Earth's atmosphere through pores called stomata. A fully grown tree may lose several hundred gallons of water through its leaves on a hot, dry day, but the 10% of water that remains keeps the living tree system healthy and maintains growth.

Generative AI is experimental.

Please consider these facts and deny.