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The Tree Project:

Integrated Urban Environmental Improvement Through Tree Selection and Management

The goal of The Tree Project is to identify how trees can be used to optimize energy and water conservation, and air quality.

Phase 1 Report

January 2007

APPENDIX A

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Overview

The IES Tree Project collection of sources first began as a search for the environmental costs and benefits of trees. An extensive search of online and print journals like the Journal for Arboriculture, and publications from the Center for Urban Forest Research provided information on many environmental benefits of urban trees along with social and economic benefits and costs. IES staff also searched for relevant information released by other national and local tree programs, forestry programs, universities and governmental organizations such as the U.S. Environmental Protection Agency, Department of Energy, Forest Service, the U.S. Geological Survey, and others. After uncovering vast amounts of information on the effects that trees have on the world around us, the IES Tree Project Scope was narrowed to develop a feasible, comprehensive study with specific goals. The Bibliography is divided into categories that apply to each goal. This collection of sources is a work in progress and IES is always searching for new information and research.

Relevant Studies includes urban forest studies similar to the IES Tree Project, or studies performed on a local level.

General Information on the Benefits of Urban Forests includes non-specific guides to the benefits of urban trees, or cost-benefit analyses.

Air Pollution and Greenhouse Gases includes information on trees' ability to absorb pollution and mitigate greenhouse gases in the air.

Center for Urban Forest Research Publications includes scientific studies published by the U.S. Forest Service's Center For Urban Forest Research (CUFR) and performed by leading urban forest researchers on topics ranging from air pollution uptake, stormwater control, VOC emissions, greenhouse gas mitigation, energy conservation and others.

Center for Urban Forest Research Programs, Projects, and Publication includes projects, programs, or informational brochures or guides that apply information from the Center for Urban Forest Research scientific studies.

Relevant McPherson Publications includes articles written by, or studies that were headed up or involved Dr. Greg McPherson of the Center For Urban Forest Research.

Energy includes information, studies, or other publications on trees and energy conservation, or U.S. energy consumption.

Tree Planting includes guides to tree planting for dry climates or how to care for plants, trees or shrubs.

Tree Species Details includes individual species information, such as Xeriscape lists, drought tolerant species, or native trees.

Air Quality includes information or publications on VOC emissions, and the effect of trees on air quality

Property Values includes publications on the effect of trees on residential home sales, retail spending, or other information related to trees and increased property values.

Funding includes information on funding forestry programs.

Tree Ordinances, Xeriscape, Water Conservation and Consumption includes information on Front Range city tree ordinances, and studies or information on trees and their water water consumption or ability to improve water conservation.

Denver, CO: U.S. Geological Survey includes local agency information on landscaping, planting, water use, and forestry principles. Includes publications from the cities of Denver, Fort Collins, Boulder, Westminster and others.

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