

SHADE TREE EVALUATION IN CITY PARKS USING GIS

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Abstract

Shade trees are appraised to evaluate forest health. Our study evaluated shade tree health and value in city parks in Nacogdoches, Nacogdoches County, Texas. Data collected included diameter at 1.4 m, species, species class and condition based on trunk, growth, structure, insects and disease, life expectancy and location. Replacement value of each tree was calculated. Biodiversity, species richness, Shannon-Weiner Function and species evenness were calculated. Replacement value, density, age structure and diameter distribution were depicted. Results indicate an urban forest low in species diversity and species richness. Future maintenance and replacement are needed based on the results.

[Abstract Only]

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