



WATER RESOURCES RESEARCH GRANT PROPOSAL

Project ID: NJ1161

Title: Human Components of Exotic Species Invasion in Urban Forested Wetlands

Focus Categories: Wetlands, Methods

Keywords: exotic species, invasion, biodiversity, native species, urban land use, disturbance, anthropogenic disturbances, human activities, urban ecosystems, invasibility, Arthur Kill

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End Date: 02/28/2002

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Non-Federal Matching Funds: \$3,575

Congressional District: 6

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Abstract

Habitats subject to persistent natural or human disturbance are more vulnerable to invasion by exotic species. With rising urban population in the US, concerns grow for environmental quality and preservation of biodiversity, and exotic species invasion. Wetlands are of particular concern due to invasive species threat to wetland functions including flood control, storm water management, sediment trapping, water quality improvements, wildlife and plant habitat, and human use values for recreation.

It is hypothesized that different types of land use on the edge of an urban wetland will have different effects on the abundance and richness of exotic plant species, and that direct human activity correlates with a higher richness and abundance of exotic species in the wetland interior.