



USFS PNW Station Research Activity Fact Sheet for the Green-Duwamish Watershed

- ***Forest Ecosystem Values (FEV) Study Comparing iTree-Eco Results Across Landscapes: City of Seattle, King County Parklands, and the Lower and Middle Green-Duwamish Watershed.*** The purpose of this study, funded by the American Resources and Recovery Act (ARRA) and originally a part of the Green Cities Research Alliance (GCRA), was to use similar methods in three different landscape types (traditional urban setting, and agency-specific park setting, and a diverse watershed gradient). The iTree results provide valuable inventory and ecosystem service information, and the report discusses limitations of using this tool in varying landscape settings.
 - ***Green-Duwamish Urban Waters Federal Partnership (UWFP) Launches Multi-benefit Projects in the Middle Green.*** In partnership with the Environmental Protection Agency (EPA), Natural Resource Conservation District (NRCS) and King County, this project will demonstrate how economic incentives may be used to encourage private landowners to improve water quality, by reducing sediments and nutrients, and restore native salmon habitat.
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- ***Green Stormwater Infrastructure (GSI) and Human Health.*** This project, now in the planning stages, highlights King County's efforts and investment in green infrastructure approaches related to stormwater runoff issues. A large GIS project is planned for the South Park neighborhood on the south bank of the lower Duwamish providing opportunities for evaluating relationships between green infrastructure and public health and well-being.
 - ***Return on Investment analysis for the North Wind's Weir.*** With combined support of the Forest Service Pacific Northwest Research (PNW) and Northern Research Stations (NRS), Earth Economics conducted a cost-benefit analysis for the NWW estuary habitat project on the Lower Duwamish. The benefits considered include 10 different ecosystem services including salmon habitat, water filtration, flood mitigation, recreational fishing, and esthetics.
 - ***Framework to Measure Ecosystem Service Values along the Urban to Rural Gradient.*** PNW and NRS also commissioned Earth Economics to update a 2005 ecosystem service valuation study of the Green-Duwamish and to recommend a framework for considering both quantitative and qualitative values of cultural ecosystem services in large watersheds.

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