

Report for 2002NY9B: Director's Office Information Transfer

- Dissertations:
 - Chan, Jason; Jonathan Lapsley; and Michael Sorensen, 2003, Hydrologic Study in the Southern Hudson River Basin: An HSPF Simulation Model for the Rondout Watershed, Master of Engineering Design Project Report, Cornell University, School of Civil and Environmental Engineering, Ithaca, NY, 103pp.

Report Follows:

Over the past year WRI has continued to promote specifically the engagement of the wider academic community in water resource management issues in New York State. As in previous years, opportunities to pursue this aim were sought through the New York State Soil and Water Conservation Committee, the New York State Agricultural Environmental Management Committee, and the New York State Non Point Source Management Coordinating Committee (NPSCC). NYS WRI also participates in work groups of NPSCC, with an emphasis on stormwater (the highest priority for NPSCC leader NYS Department of Environmental Conservation), agriculture, and information and outreach. Most NYS WRI activity on these groups in FY2002 related to Delaware County phosphorus management projects, drawing in local government partners from that cluster.

As part of the Delaware County project cluster, Landscape Architecture student Outi Salminen worked with the Village of Stamford and an engineering consultant to devise options for stormwater quality management, flood management, and recreation. The project revolves around a piped stream channel downstream of a wetland that formerly hosted a small impoundment. Restoration of the impoundment and opening up of much of the currently piped stream could improve wildlife habitat, eliminate local flooding, and possibly benefit water quality.

Master of Engineering students Michael Sorensen, Jonathan Lapsley, and Jason Chan modeled the water budget of the Rondout Creek/Wallkill River subbasin of the Hudson River basin. Their application of simulation model HSPF (using EPA's BASINS framework) pilots the possible modeling of the entire lower Hudson basin for climate change and land development impact assessment.