Updating WATERSHEDSS: A web based decision support system for Best Management Practice (BMP) selection. (A05-hayes173358-Poster)

Authors:

• S.A.Hayes - Soil Science Department, NCSU

• D.L.Osmond - Soil Science Department, NCSU

Abstract:

WATERSHEDSS (WATER, Soil, and Hydro-Environmental Decision Support System) is a web-based source of information for the identification of water quality problems and the selection of appropriate BMPs. The objective of WATERSHEDSS is to transfer water quality and land treatment information to watershed managers and land owners to assist them in making appropriate land management decisions for improved water quality. With user supplied information WATERSHEDSS will assess and evaluate sources, impacts, and potential management options for control of nonpoint source (NPS) pollution in a watershed. The system is comprised of six components: (1) a hypertext expert-system-like user interface that serves as the watershed assessment and evaluation framework for the decision support system, (2) an educational component, containing detailed information and references on NPS pollutants and sources, (3) an annotated bibliography of NPS literature, (4) an agricultural BMP data base, (5) a linked Geographical Information System (GIS)/water quality model, and (6) a pollutant budget spreadsheet. WATERSHEDSS, developed in 1995, is being updated with new materials, regulations, standards, and photographs.

Corresponding Author Information:

Sara Hayes North Carolina State University Soil Science Department Raleigh, NC 27695 phone: 919-515-2058 e-mail: sahayes@unity.ncsu.edu

Presentation Information:

Presentation Date: Monday, November 11, 2002 Presentation Time: 2:00-4:00 pm Poster Board Number: 234

Keywords:

BMPs, Nonpoint Source pollution, decision support system