Impact Targeting: Applying Conservation Tools for Maximum Results

National Association of State Conservation Agencies Annual Meeting September 2008

Collaborative Effort

- Michigan Department of Agriculture
- Michigan State University
- Michigan Conservation Districts (Clinton, Huron, and Lenawee Counties)
- Others such as local drain commissioners, MI Dept. of Environmental Quality, MSU Extension

Conservation Innovation Grant

Competitive grant funded by USDA NRCS,3-year project

p Goals:

- n Develop online GIS/modeling tool to identify areas at risk for erosion & sedimentation.
- n Solicit feedback from CD Technicians and other potential users to develop & refine tool.
- Promote use of the tool to potential users.
- n Increase resource efficiency.
- n Increase participation in conservation programs.

Michigan Dept. of Agriculture

Oversight of entire project

p Facilitating relationship between MSU and Conservation Districts

Directing outreach efforts

Finding opportunities resulting from the project (i.e. incorporating H.I.T. Tool results into grant evaluations)

MSU Institute of Water Research

- Developed project proposal
- Developing of H.I.T. Tool
- Working with Conservation District Technicians to develop & refine H.I.T. Tool and to conduct field evaluations

Conservation Districts

- Conservation District Technicians (1/2 FTE) hired in 3 different 8-digit watersheds
- CD Technicians have helped guide the development of the H.I.T. Tool
- CD Technicians will now focus on outreach efforts to promote use of the H.I.T. Tool and participation in conservation programs

Impact Targeting

Using technology to help prioritize conservation work

Efforts to increase time & resource efficiencies when resources are limited

Empower others to get involved with conservation efforts (i.e. watershed groups, drain commissioners, etc.)

H.I.T. Tool

Model combines results from SEDMOD¹ & RUSLE² to determine sediment yield

P Results can be displayed in spatial, tabular, or graphic format

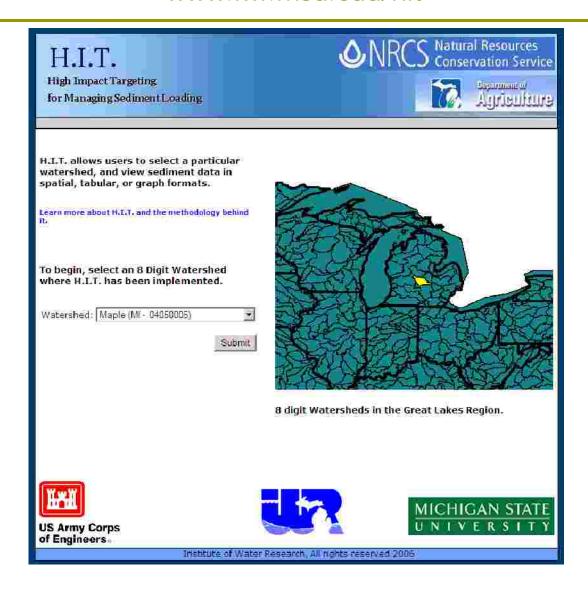
Available online

Ability to evaluate impact of BMPs

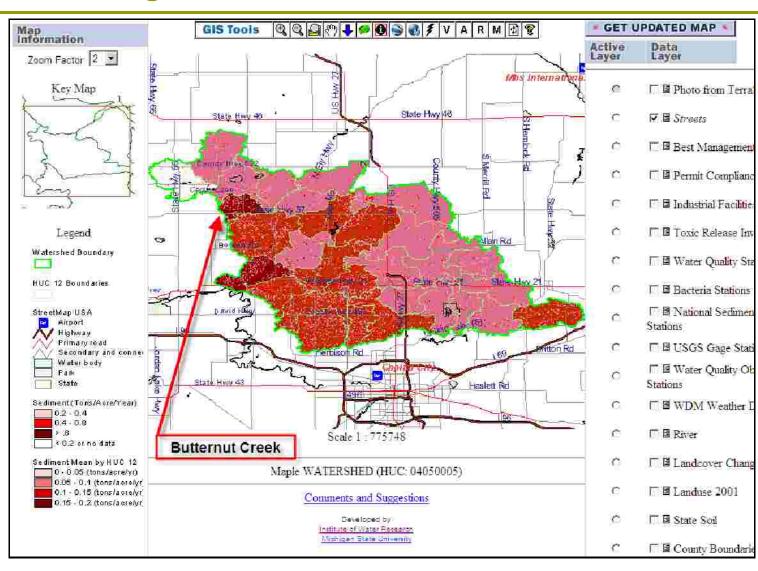
- 1. Fraser. May 1999
- 2. Renard, Foster, Weesies, McCool, Yoder. 1996.

HIT Tool

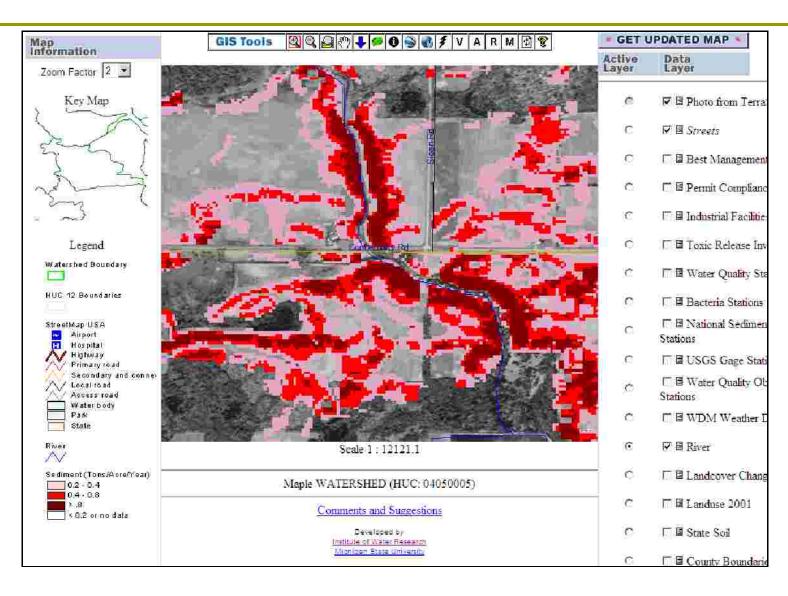
www.iwr.msu.edu/hit



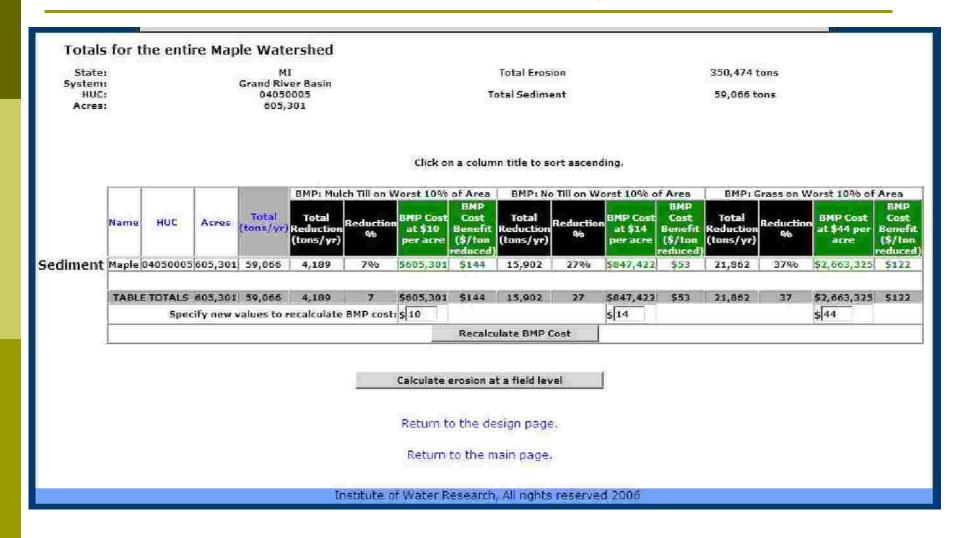
Large-scale use of HIT Tool



Small-scale use of HIT Tool



BMP Evaluation using HIT Tool



Challenges & Barriers

- More accurate data (DEMs) needed for more accurate modeling not available for Michigan, creating major delays.
- Conflicting ideas of who will use H.I.T. Tool most (target audience) and how.
- P H.I.T. Tool not yet incorporated into existing tools; one tool among many.

Results to Date

- P HIT Tool available online for all 3 project watersheds w/ spatial data at 10m resolution.
- Several project partners involved, HIT Tool use increasing as a result.
- New and/or improved partnering.
- Many "offspring's" from the project.

Future Plans & Expectations

- CD Technicians will focus primarily on outreach efforts in FY09, promoting the use of the HIT Tool and participation in conservation programs.
- CD Techs & their counterparts will continue to incorporate the HIT Tool into their conservation work.
- p Funding will be sought to expand project to more/all Michigan watersheds.

Lessons Learned

- p Involve partners earlier on in the project (before proposal is submitted).
- Make sure project goals & benchmarks are clear so that project can be easily modified, if necessary, along the way.
- Make sure all partners financially involved have a clear understanding of their fiscal responsibilities associated w/ the project.

Questions? Comments?

Thank you



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