

TEN NATIONAL PLANNING TOOLS FOR SUSTAINABLE DEVELOPMENT

General

SEAHOME: www.epa.gov/glmpo/seahome

More than sixty programs that can be run directly or downloaded, including the entire Wisconsin Farmstead Assessment System. There are courses in quality grant writing, environmental assessment, and small-community environmental planning.

ENVIRONMENTAL PLANNING FOR SMALL COMMUNITIES:

<http://www.epa.gov/seahome/trilogy.html>

HTML site for this program. It will be linked by LGEAN by August 2004.

LGEAN: <http://www.lgean.org/>

LGEAN (Local Government Environmental Assistance Network) is to be the final operating site for LTHIA. It is a huge free planning tool website for local governments maintained by the International City/County Management Association.

Specific

LTHIA: <http://www.ecn.purdue.edu/runoff/lthianew/>

The LTHIA program calculates the surface and groundwater impacts of land use changes for quality and quantity for 13 NPS contaminants. It integrates national databases for weather, soils, topography, and land use, allow virtually limitless addition of specific databases, like the blades of a Swiss army knife. Also see plugin links at: <http://www.ecn.purdue.edu/runoff/lthianew/icmatools.htm>

DIGWAT: <http://www.iwr.msu.edu/dw/>

Michigan State University's Digital Watershed is a national freely accessible web-based (no ARC-VIEW needed) environmental planning tool, coordinating physical, environmental and demographic information; now integrated with LTHIA. It offers access by web-based GIS or street address for all of Region 5. It covers the entire country at an 8-digit watershed level. It and the Purdue Watershed Delineation tool, below, are the two major ways to use the web-based GIS form of LTHIA. Also see the tools at: <http://www.epa.gov/waterspace/toolpage.html>

WATDEL: http://pasture.ecn.purdue.edu/~jychoi/wd_home/

and <http://pasture.ecn.purdue.edu/~watergen/>

This is an LTHIA plugin site that allows high-precision watershed delineation using digitized topographic maps. Drilling down to a selected site allows extraction and processing in the web-based GIS version of LTHIA. The site now covers all of Region 5.

TMDL (Urban BMPs): <http://pasture.ecn.purdue.edu/~jychoi/ubmp0/>

This is another LTHIA -plugin, a very early draft of a decision support system to identify locations that would benefit from TMDL (Total Maximum Daily Load) development.

NAPRA: <http://danpatch.ecn.purdue.edu/~napra/>

This LTHIA plugin is a free decision support tool to assess the environmental impact of agricultural pesticide use.

AMANURE: <http://danpatch.ecn.purdue.edu/~amanure/amanure/frame.html>

This LTHIA plugin is a free decision support tool to calculate the most desirable land application rate for animal manure.

RWASTE5: <http://danpatch.ecn.purdue.edu/~onsite/> CAT design tool for on-site wastewater treatment

