

SUGGESTED RESOURCES (also available at <http://www.hrt.msu.edu/brad-rowe/pg7>)

Teaching Landscape Sustainability: Resources and Methods

PLANET Student Career Days, Atlanta, GA (4-8-10)

Brad Rowe, Michigan State University (rowed@msu.edu)

Tim Schauwecker, Mississippi State University (tjs2@msstate.edu)

Ann Marie Van Der Zanden, Iowa State University (vanderza@iastate.edu)

Printed text

Begon, M., C. R. Townsend, J. L. Harper. 2005. Ecology: From Individuals to Ecosystems, 4th Edition. Wiley-Blackwell.

Bentrup, Gary. 2008. Conservation Buffers: Design Guidelines for Buffers, Corridors, and Greenways. Gen. Tech. Rep. SRS-109. Asheville, NC: Department of Agriculture, Forest Service, Southern Research Station. (www.bufferguidelines.net)

Jacke, Dave with Eric Toensmeier. 2005. Edible Forest Gradens, Volume 2: Ecological Design and Practice for Temperate Climate Permaculture. Chelsea Green Publishing, White River Junction, VT.

Odum, E. P. 1969. The strategy of ecosystem development. Science (164) 262 – 270.

PLANET. 2009. Green Industry ECONomics: Innovating Toward a Sustainable and Profitable Future. Crystal Ball Report #29. Professional Landcare Network, Herndon, VA.

Reed, Sue. 2010. Energy-Wise Landscape Design. New Society Publishers, Gabriola Island, BC, Canada.

Thompson, J. William and Kim Sorvig. 2007. Sustainable Landscape Construction: A Guide To Green Building Outdoors, 2nd Edition. Island Press, Washington D.C.

Web Resources

Audubon Society, specifically Cooperative Sanctuary Program for golf courses

(<http://acspgolf.auduboninternational.org/>)

Biodiversity in the Great Lakes Region (www.great-lakes.net/envt/flora-fauna/biodivers.html)

Carbon cycle (http://www.esep.umces.edu/index.php?area_id=611)

Ecosystem Services Project (<http://www.ecosystemservicesproject.org/html/overview/index.htm>)

EPA Green Acres – Landscaping with Native Plants (www.epa.gov/greenacres/nativeplants/factsht.html)

EPA Low Impact Development (www.epa.gov/nps/lid)

EPA Sustainable Landscaping (www.epa.gov/greenacres/smithsonian.pdf)

Green Roofs for Healthy Cities (www.greenroofs.org)

Green Roof Research at Michigan State University (www.hrt.msu.edu/greenroof)

Leadership in Energy and Environmental Design (LEED) (www.usgbc.org)

National Wildlife Federation (<http://www.nwf.org/gardenforwildlife>)

Nitrogen cycle (<http://www.icsu-scope.org/downloadpubs/scope51/chapter11.html>)

Phosphorus cycle (http://www.euwfd.com/html/sources_of_pollution_-_diffuse.html)

Sustainable Landscaping (<http://sustainablelandscaping.us>)

Sustainable Sites Initiative (<http://sustainableites.org>)

Thermodynamics (http://www.waterwatch.nl/fileadmin/bestanden/Tools/PPT_SEBAL_strip.pdf)

University of Minnesota Sustainable Urban Landscape Information Series (<http://www.sustland.umn.edu/>)

US Green Building Council (USGBC) (www.usgbc.org)

Regulation/Policy

American Environmental Values Survey (AEVS) (<http://ecoamerica.org/programs/american-environmental-values-survey-aevs>)

Carbon Markets

(<http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/ENVIRONMENT/EXTCARBONFINANCE/0..menuPK:4125909~pagePK:64168427~piPK:64168435~theSitePK:4125853,00.html>)

Clean Water Act, Clean Air Act, National Pollution Discharge Elimination System (NPDES), Endangered Species Act, Federal Insecticide, Rodenticide, and Fungicide Act (FIRFA), National Environmental Policy Act (NEPA), Pollution Prevention Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Occupational Safety and Health Act (OSHA)
(<http://www.epa.gov/regulations/laws/index.html>)

Conservation economy diagram (<http://www.reliableprosperity.net/>)

Government Subsidies (<http://www.nrcs.usda.gov/Programs/>)

Investment Tax Credits (http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=US02F)

Examples of measurement-based sustainability initiatives

Residential landscape (<http://www.sustainablesites.org/cases/show.php?id=1>)

Commercial parking lot (<http://www.sustainablesites.org/cases/show.php?id=16>)

National Ski Area Association (http://www.nsa.org/nsaa/environment/the_greenroom/)

School bio-retention (<http://www.sustainablesites.org/cases/show.php?id=19>)

Water

Jones, M. P. and W. F. Hunt. 2008. Rainwater Harvesting: Guidance for Homeowners. North Carolina Cooperative Extension Service.

Jurries, D. 2003. Biofilters (Bioswales, Vegetative Buffers, & Constructed Wetlands) For Storm Water Discharge and Pollution Removal. State of Oregon DEQ Northwest Region Document.
(<http://www.deq.state.or.us/nwr/stormwater.htm>)

Mayer, P.M., S.K. Reynolds, M.D. McCutchen, and T.J. Canfield. 2006. Riparian buffer width, vegetative cover, and nitrogen removal effectiveness: A review of current science and regulations. EPA/600/R-05/118. Cincinnati, OH, U.S. Environmental Protection Agency.

Mueller, D. K. and D. R. Helsel. 2009. Nutrients in the Nation's Waters--Too Much of a Good Thing? U.S. Geological Survey Circular 1136 (<http://pubs.usgs.gov/circ/circ1136/circ1136.html#INTRO>)

Schueler, T. R. 1994. Can Urban Soil Compaction Be Reversed? Technical Note #108 from Watershed Protection Techniques. 1(4): 666-669.

Field evaluation of permeable pavements for stormwater management
(www.epa.gov/owow/nps/pavements.pdf)

Greywater reuse fact sheets (www.waterforlife.nsw.gov.au)

Permeable pavements, green roofs and cisterns
(www.bae.ncsu.edu/stormwater/PublicationFiles/BMPs4LID.pdf)

Rain Gardens (<http://clean-water.uwex.edu/pubs/raingarden/index.html>)

RainXchange™ system (http://www.aquascapeinc.com/why_rainxchange)

Water Efficient Landscaping (www.epa.gov/owm/water-efficiency/index.htm)

Xeriscaping: Colorado Water Wise

(http://coloradowaterwise.org//index.php?option=com_content&task=view&id=88&Itemid=145)