

Green Infrastructure Resource Bibliography -- Selected Readings, Case Examples and Data

GREEN INFRASTRUCTURE PLANNING

Benedict, Mark A. and McMahon, Edward T. *Green Infrastructure: Linking Landscapes and Communities*. Washington, D.C., Island Press. 2006.

Benedict, Mark A. and McMahon, Edward T. *Green Infrastructure: Smart Conservation for the 21st Century*. Washington, D.C., Sprawl Watch Clearing House. May 2002. Online at <http://www.sprawlwatch.org/greeninfrastructure.pdf>

Dale, Virginia H., et al. *Ecological Principles and Guidelines for Managing the Use of Land*. Ecological Applications: Vol. 10, No. 3, pp. 639–670. 2000.

Dale, Virginia H. and Haeuber, R.A. (editors). *Applying Ecological Principles to Land Management*. New York, Springer-Verlag. 2001.

Dale, Virginia H. and English, M.R. (editors). *Tools to Aid Environmental Decision Making*. New York, Springer-Verlag. 1999.

Dramstad, Wenche E., et al. *Landscape Ecology Principles in Landscape Architecture and Land Use Planning*. Washington D.C., Island Press. 1996.

Duerksen, Christopher and Snyder, Cara. *Nature Friendly Communities, Habitat Protection, and Land Use Planning*. Washington, D.C., Island Press. 2005.

Forman, R. T. T. *Land Mosaics: The Ecology of Landscapes and Regions*. Cambridge, Cambridge University Press. 1995.

Fulton, William, Pendall, Rolf, Nguyen, Mai, and Harrison, Alicia. *Who Sprawls Most? How Growth Patterns Differ Across the U.S.*, The Brookings Institution. July 2001.

Hellmund, Paul C. and Smith, Daniel S. *Designing Greenways: Sustainable Landscapes for Nature and People*. Washington, D.C., Island Press. 2006.

Johnson, Bart and Hill, Kristina (editors). *Ecology and Design*. Washington D.C., Island Press. 2001.

McHarg, Ian. *Design with Nature*. Falcon Press. 1969.

The Nature Conservancy. *Precious Heritage: The Status of Biodiversity in the United States*. Washington, D.C., The Nature Conservancy. 2000.

Trust for Public Land. *Building Green Infrastructure: Land Conservation as a Watershed Protection Strategy*. San Francisco, Trust for Public Land. 2000.

Legal Tools

McElfish, James M., *Nature Friendly Ordinances*. Washington, D.C., Environmental Law Institute. 2004.

Tree Conservation Ordinance: Fairfax County Virginia. Tree Ordinance and Amendments. Fairfax County. <http://www.fairfaxcounty.gov/dpwes/publications/pfm/treeconservation>

Examples of urban forest management plans: Urban Forestry South Expo. Management Plans.
<http://www.urbanforestrysouth.org/resources/management-plans>

Land and Water Planning

Environmental Law Institute. *Planning for Biodiversity: Authorities in State Land Use Laws*. Washington, D.C., Environmental Law Institute. 2003.

McElfish, James M. *Nature Friendly Ordinances*. Washington, D.C., Environmental Law Institute. 2004.

Nolon, John. *Open Ground: Effective Local Strategies for Protecting Natural Resources*. Washington, D.C., Environmental Law Institute. 2003.

Nolon, John. *New Ground: The Advent of Local Environmental Law*. Washington, D.C., Environmental Law Institute. 2003.

Riley, Ann L. *Restoring Streams in Cities*. Washington D.C., Island Press. 2001.

Effects of Urbanization on Stream Ecosystems: <http://water.usgs.gov/nawqa/urban>

Southern Forest Research Station -- Source for Statistics on Southern Forests: www.srs.fs.usda.gov

National Biological Information Infrastructure: www.nbi.gov/portal/server.pt

National Wetlands Inventory: www.fws.gov/nwi

Green Infrastructure Planning Economics

Crompton, John L., Love, Lisa L., Moore, Thomas A. *An Empirical Study of the Role of Recreation, Parks and Open Space in Communities (Re)Location Decisions*. Journal of Park and Recreation Administration, Vol. 1, No. 1, pp. 37-58. Spring 1997.

Davis, Lynn. "Urban Forestry: Engineering Cities into Natural Systems". Research Magazine, Winter 2004.
<http://www.research.vt.edu/resmag/2004resmag/forestry.html>

Increased pavement longevity:

Center for Urban Forest Research. "Why Shade Streets? The Unexpected Benefits". 2006.
http://www.fs.fed.us/psw/programs/cufr/products/cufr_673_WhyShadeStreets_10-06.pdf

Green Infrastructure and Improved Community Health Conditions

Akbari, H., Pomerantz, M., and Taha, H. *Cool Surfaces and Shade Trees to Reduce Energy Use and Improve Air Quality in Urban Areas*. Solar Energy, Vol. 70, No. 3. 2001.

BBC News. "Tree Lined Streets Cut Asthma". May 2008. <http://news.bbc.co.uk/2/hi/health/7374078.stm>

Georgia Forestry Commission. *Tree Benefits: Environmental Benefits of Trees*.
<http://www.gfc.state.ga.us/CommunityForests/TreeBenefits.cfm>

Miller, Daphne. "Take A Hike and Call Me in the Morning". Washington Post. November 17, 2009.

Sullivan, W. C. and, F. E Kuo. "Do Trees Strengthen Urban Communities, Reduce Domestic Violence?" Forestry Report R8-FS 56. Human-Environment Research Laboratory Department of Natural Resources and Environmental Sciences University of Illinois at Urbana- Champaign. January 1996. http://www.urbanforestrysouth.org/pubs/tech_bulletin/tb4.htm

Social Marketing and Behavior

Florida, Richard. "The Rise of the Creative Class". Washington Monthly. May 2002.
<http://www.washingtonmonthly.com/features/2001/0205.florida.html>

Lynn, William S. *The Ethics of Social Marketing for Conservation: A Learning Module*. RARE Training Manual. London: RARE. 2001. <http://www.rmportal.net/library/content/tools/biodiversity-conservation-tools/putting-conservation-in-context-cd/communication-and-education-approaches-resourses/The-Ethics-of-Social-Marketing-for-Conservation-A-Learning-Module/view>

Winter, Patricia L., Sagarin, B. J., Rhoads, K., Barrett, D. W., and Cialdini, R. B. *Choosing to Encourage or Discourage: Perceived Effectiveness of Prescriptive Versus Proscriptive Messages*. Environmental Management. Vol. 26, No. 6. pp. 589-594. December 2000.

Winter, Patricia L., Cialdini, R. B., Sagarin, B. J. *An Analysis of Normative Messages in Signs at Recreation Areas*. Journal of Interpretation Research. Vol. 3, No. 1. pp. 39-47. Winter 1998.

GREEN INFRASTRUCTURE EXAMPLES AND CASE STUDIES

Canadian U.S. Bioregion Plan: www.2c1forest.org

The Conservation Fund Green Infrastructure Network: [www.greeninfrastructure.net/what we do](http://www.greeninfrastructure.net/what_we_do)

Florida Ecological Network Program (1995): www.geoplan.ufl.edu/projects/greenways/greenwayindex.html

Green Infrastructure Center: www.gicinc.org/projects.htm

Greenprint for King County, WA (March 2005): dnr.metrokc.gov/wlr/greenprint

Maryland GreenPrint Program (2001): www.dnr.state.md.us/greenways/greenprint

Kinston/Lenoir County, NC Green Infrastructure Plan (2002): www.greeninfrastructure.net/kinston-lenoir_county_profile

Mountains to Sound Project (Puget Sound, WA, 2005): www.mtsgreenway.org/about/index.html

Massachusetts Biomap Project (2001): www.mass.gov/dfwele/dfw/nhosp/nhbiomap.htm

Metro Greenways Project (Twin Cities, MN, 1997): www.dnr.state.mn.us/greenways/index.html

Natural Connections, Green Infrastructure in Wisconsin, Illinois, and Indiana (2000): www.greenmapping.org

Pima County Multi-Species Restoration Plan (Pima County, AZ, 2006) <http://rfcd.pima.gov/wrd/sdcp.htm>

Prince Georges County, MD Countywide Green Infrastructure Plan (2005):
[www.pgplanning.org/Projects/Ongoing_Plans_and_Projects/Environmental/Green Infrastructure](http://www.pgplanning.org/Projects/Ongoing_Plans_and_Projects/Environmental/Green_Infrastructure)

Saginaw Greenways Initiative Report (Saginaw Bay, MI, 2000): www.msu.edu/~jaroszjo/greenway/main.htm

Thomas Jefferson Planning Commission District Green Infrastructure Study:
[http://www.tjpc.org/pdf/Environment/Green Infrastructure Report 12-22-09.pdf](http://www.tjpc.org/pdf/Environment/Green_Infrastructure_Report_12-22-09.pdf)

The Green Infrastructure Center Inc., 921 Second Street, SE, Charlottesville, Virginia, 22902
(T:) 434-975-6700 #222, (F): 434-975-6701
www.gicinc.org

Trust for Public Lands Building Green Infrastructure Report:
www.tpl.org/tier3_cdl.cfm?content_item_id=915&folder_id=745

Virginia-Specific

Benedict, Mark A., Allen, Will, and McMahon, Edward T. *Advancing Strategic Conservation in the Commonwealth of Virginia: Using a Green Infrastructure Approach to Conserving and Managing the Commonwealth's Natural Areas, Working Landscapes, Open Space, and Other Critical Resources*. Washington, D.C., The Conservation Fund. 2004. Online at: www.greeninfrastructure.net/virginia

Conservation Lands Database: www.dcr.virginia.gov/land_conservation/tools02a.shtml

Hampton Roads Planning District Commission: Green Infrastructure Planning:
http://www.hrpd.org/PEP/PEP_Green_Infras_Plan.asp

New River Valley Planning District Commission (NRVPDC) Green Infrastructure Initiative:
<http://www.nrvpdc.org/GreenInfrastructure/greeninfrastructure.html>

Virginia Conservation Lands Needs Assessment: www.dcr.virginia.gov/natural_heritage/vclna.shtml.

Virginia Natural Heritage Program: National Heritage Resources Database:
www.dcr.virginia.gov/natural_heritage/nhrinfo.shtml

SOFTWARE

Tree Canopy Goals and Analysis

CITYgreen is a Geographic Information System (GIS) add-on software produced by American Forests. This software requires that tree canopy has already been mapped in order to plug the information into the model, which can be used to determine the costs and benefits of urban trees for stormwater, carbon and pollution sequestration and other values.
<http://www.americanforests.org/resources/urbanforests/treedeficit.php>

i-Tree is a state-of-the-art, peer-reviewed public domain software from the USDA Forest Service that provides urban forestry analysis and benefit assessment tools. The i-Tree Tools help communities strengthen their urban forest management and advocacy efforts by quantifying the structure of community trees and the environmental services that trees provide. <http://www.itreetools.org/>