

Urban Ecological Systems

The services of novel ecosystems

Reading List

Urban Problems and Conditions

Millennium Ecosystem Assessment 2003 'Urban Systems', Chapter 12, p795-825

Ecosystem Services

Millennium Ecosystem Assessment 2003 'Conceptual Framework', Chapter 1, p1-12

De Groot, R. S., Wilson, M. A., & Boumans, R. M. (2002). 'A typology for the classification, description and valuation of ecosystem functions, goods and services'. *Ecological economics*, 41 (3), 393-408.

Urban Ecology and Landscape(isms)

Corner, J. 2006 'Terra Fluxus', The Landscaper Urbanism Reader, Princeton Arch Press, pg 21-33

Roncken, P. A., Stremke, S., & Paulissen, M. P. (2011). Landscape machines: productive nature and the future sublime. *Journal of Landscape Architecture*, 6(1), 68-81.

Hight, C. 2014 'Designing Ecologies' in Projective Ecologies Harvard GSD pg 84-105

Green Infrastructure

Coffman R. and Strosnider, K. 2009 "Public rain gardens for water quality in extreme environments." *Land and Water Magazine*, Nov-December pgs 37-40

Living Architecture

Oberndorfer, E., Lundholm, J., Bass, B., Connelly, M., Coffman, R., Doshi, H., Dunnett, N., Gaffin, S., Köhler, Liu, K., Rowe, B. 2007 'Green Roofs as Urban Ecosystems: Ecological Structures, Functions, and Services' *Bioscience*, Vol. 57, issue. 10, Nov (cover and feature article)

Succession and Time

Waldheim, C 2006 'Landscape as Urbanism', The Landscaper Urbanism Reader, Princeton Arch Press, pg 35-52

Resiliency and Adaptation

Holling C.S. and Goldberg, MA 1971 'Ecology and Planning' reprint in Projective Ecologies Harvard GSD pg 106-123

Wu J and Wu T 2013 'Ecological Resilience as a Foundation for Urban Design and Sustainability' in *Resilience in Ecology and Urban Design* Springer pgs 211-229

Urban Ecological Systems

The services of novel ecosystems

Nested Ecologies

Botkin D. 1990 'Within the Mooses Stomach: Nature as the Biosphere' originally in *Discordant harmonies*, reprinted in *Projective Ecologies*, Harvard GSD p 152-167

Hydrology

Shaw D. and Schmidt R. 2003 *Plants for Stormwater Design: Species Selection for the Upper Midwest*. Minnesota Pollution Control Agency 369pg

Nutrients

Read, J., Fletcher, T. D., Wevill, T., & Deletic, A. (2009). 'Plant traits that enhance pollutant removal from stormwater in biofiltration systems.' *International journal of phytoremediation*, 12(1), 34-53.

Human Health and Well Being

Tzoulas, K., Korpela, K., Venn, S., Yli-Pelkonen, V., Kaźmierczak, A., Niemela, J., & James, P. (2007). 'Promoting ecosystem and human health in urban areas using Green Infrastructure: A literature review'. *Landscape and urban planning*, 81(3), 167-178.