

This is a list of selected research tools that address the issues of water conservation and management in an urban environment. All the sources are located in the U.S.C. Library system. To search for books, conference proceedings, and other monographs associated with social justice issues, search HOMER, the online library catalog. For periodical articles concerning this topic, consult the section in this guide entitled, "Indexes and Abstracts." Note that many publications from the United Nations, World Bank, and other international agencies may be useful. These items are located in the VKC International Documents Collection. To obtain a particular publication, request assistance at the VKC circulation desk. For an annotated list of basic urban planning research materials, use the *Urban Planning* library research guide. Please consult a reference librarian if you need further research assistance.

DICTIONARIES

Drinking Water Dictionary. New York: McGraw-Hill, 2001.

Science Library [Reference] TD208 .D75 2001

Produced by the American Water Works Association, this dictionary includes over 15,000 terms in all areas of drinking water: supply, treatment, regulation, chemistry, health effects, distribution, management, storm water, wastewater, hydrology, and over thirty other distinct topics associated with drinking water. Includes definitions of abbreviations and acronyms as well. The entries are written by twenty-three experts in their respective fields. The dictionary also includes Units of Measurement, a Table of Conversation Factors, and a list of sources of further information. This is the most comprehensive source on the topic of managing and distributing drinking water in the built environment.

International Glossary of Hydrology. 2nd ed. Geneva: Secretariat of the World Meteorological Organization, 1992

Science Library [Reference] GB 655 .W25 1992

This dictionary includes approximately 1,800 terms arranged alphabetically in English, with equivalents and definitions given in French, Russian, and Spanish. Indexes in all four languages refer to the main section. The dictionary includes the Universal Decimal Classification for hydrology in the appendix.

Lo, Shus-Shiaw. ***Glossary of Hydrology.*** Littleton, CO: Water Resources Publications, 1992.

Doheny Library [Book Stacks] GB 655 .L6 1992

Lists over 17,500 terms in surface and ground water hydrology as well as related terms in meteorology, geology, and engineering. Definitions are usually brief but not overly technical.

ENCYCLOPEDIAS

Dasch, Julius E. *Water: Science and Issues*. 4 vols. New York: Macmillan Reference USA, 2003. U.S.C. Libraries [Electronic Book] GB655 .W38 2003eb

With more than 300 topical entries, this encyclopedia is a good starting place for anyone desiring to learn about a wide array of topics surrounding the nature, sources, use, desecration, and protection of this most valuable resource. Acid rain, Bottled water, Careers in oceanography, Hoover Dam, Leonardo da Vinci, Plankton, Salmon decline and recovery, and Wetlands are examples of entries. The topical outline at the beginning of all volumes groups entries into 28 categories such as "Agriculture," "Aquatic Animals," "Biographies," "Using Water," and "Weather and Climate." The outline also lists the 17 "Selected Sidebars Topics." Also at the beginning of each volume are several tables: metric conversions; symbols, abbreviations, and acronyms; and geologic eras, periods and epochs. Entries range in length from 500 to 2,500 words and include short bibliographies of print and electronic sources. Pages have wide margins, which contain picture captions, definitions of key terms, and boxes of important facts and explanations. Each volume concludes with the 36-page, detailed cumulative index and the 60-page glossary. The glossary is a useful reference tool with clear, plain English definitions of terms like 100-year flood, one that has a 1 percent chance of happening in a given year, and senior appropriator, the holder of the highest or oldest water right. The scientific and social aspects of water are well introduced in this set.

Newton, David E. *Encyclopedia of Water*. Westport, CT: Greenwood Press, 2003. Doheny Library [Reference] GB655 .N38 2003

The 236 entries in this book comprise an A-Z overview of water's manifold roles in human society and the natural world throughout history. Topics include boats and ships, dams, groundwater, hydrology, ice, the Johnstown Flood, Scripps Institute of Oceanography, sea monsters, surface tension, and water wheels, and much more. Scientific and technical issues are explored, including the physical and chemical properties of water, steam, and ice; the uses to which water and steam are put; and the purification, transfer, and uses of water by communities. The hydrologic cycle is explained, with attention to the properties and distribution of ice masses, and the properties of oceans and rivers. In addition, philosophical, mystical, metaphorical, and symbolic roles of water in literature, mythology, religion, the visual arts, and music are considered, as are individuals and organizations responsible for contributing to our understanding of water. This book includes a bibliography and a guide to related topics. Each entry concludes with a list of further readings.

DIRECTORIES

Access EPA. Washington, DC: U.S. Environmental Protection Agency, Information Management and Services, 1991-. Annual.

Grand Library [Bookstacks] Z 675 .E75U55a

A basic reference tool for understanding and working with the Environmental Protection Agency. Provides access to data in: 1) public information; 2) major EPA dockets; 3) clearinghouses and hotlines; 4) records management programs; 5) major environmental databases; 6) library and information services; 7) state environmental libraries; 8) glossary of acronyms.

Encyclopedia of Associations. Detroit, MI: Gale Group, Inc. Annual.

Doheny Library [Reference] HS17 .G3362

Encyclopedia of Associations: International Organizations. Detroit, MI: Gale Group, Inc. Annual.

Doheny Library [Reference] HS17 .G3364

Encyclopedia of Associations: Regional, State and Local Organizations. Detroit, MI: Gale Group, Inc. Annual.

Doheny Library [Reference] HS17.G3363

The most comprehensive source for detailed information on more than 22,000 nonprofit American membership organizations of national scope. Every entry offers a wealth of valuable data, typically including the organization's complete name, address and phone number together with the primary official's name and title; fax number, when available; founding date, purpose, activities and dues; national and international conferences; and more. Also featured is an alphabetical name and keyword index so you can quickly locate the name and address of the organization you need to contact without ever having to consult the main entry. Encyclopedia of Associations has two companion volumes: Volume 2, Geographic and Executive Indexes and Volume 3, Supplement, which updates contact information from the previous edition and provide coverage of new or newly identified associations and projects. The *Regional, State and Local Organizations* volume provide detailed information on U.S. nonprofit membership organizations with interstate, state, intrastate, city or local scope and interest. The *International Organizations* volume covers multinational and national membership organizations from Afghanistan to Zimbabwe, including U.S.-based organizations with a binational or multinational membership.

HANDBOOKS

Alley, E. Robert. ***Water Quality Control Handbook.*** 2nd ed. New York: McGraw-Hill, 2007.

Science Library [Reference] TD420 .A45 2007

The updated *Water Quality Control Handbook* provides information on designing and operating systems used to treat wastewater from industrial and domestic sources. This state-of-the-art guide explores design innovations, equipment selection, treatment processes, new regulations, and operating methods for achieving peak performance in all kinds of wastewater treatment facilities. The author also examines breakthroughs that are improving current wastewater treatment practice, covering the optimization of activated sludge wastewater treatment through cation control, pH control for quickly varying pH levels, and the use of separate activated sludge treatment units in series to efficiently treat a mixture of biodegradable and refractory organics. The author also discusses the design of activated sludge wetlands, new pollutant precipitation techniques, total nitrogen removal design, recommendations for reducing effluent toxicity to aquatic life, and much more. Handbook includes 650 illustrations, charts, and tables with expanded coverage of treatment systems for specific pollutants, the latest water quality regulations, and new sections on wastewater treatment operations, new material on membrane treatment processes, and new developments in cost-saving treatment design methods.

Berry, James F. and Mark S. Dennison. ***The Environmental Law and Compliance Handbook.*** New York: McGraw-Hill, 2000.

VKC Library [Bookstacks] KF 3775 .B42 2000

This comprehensive handbook covers a broad range of topics associated with environmental law compliance. A significant portion of the book is devoted to covering the urban environment, including water pollution control, hazardous and toxic waste control, and land use control. The handbook concludes with a glossary of environmental terms and acronyms and a comprehensive index.

Handbook of Public Water Systems. 2nd Edition. New York: John Wiley, 2001.

Science Library [Reference] TD223 .H27 2001

This handbook covers the myriad of issues associated with public water systems that deliver high-quality water to the public. This book is useful in finding a technical explanation for solving the vast array of problems, from pollution monitoring and control to the fundamentals of hydraulics and pipe fitting with running an effective public water system. Among the topics discussed in each chapter are Water System Planning, Source Water Development, and Economic and Financial Issues.

Kassim, Tarek A., ed. ***Environmental Impact Assessment of Recycled Wastes on Surface and Ground Waters***. New York: Springer, 2004-2005.

Science Library [Bookstacks] TD428 .R4E58

The state of the art of the impact assessment of recycled hazardous waste materials on surface and ground waters is presented. The topics include chemodynamics, toxicology, modeling and information systems. Information on this topic is published in three separate volumes: vol. 1: Concepts, Methodology and Chemical Analysis; vol. 2: Risk Analysis and vol. 3: Engineering Modeling and Sustainability. The book serves as a practical conceptual guide for those who have professional responsibility for the monitoring, design, management, or conduct of environmental impact assessment. It is believed that the book will prove useful to the reader who, regardless of disciplinary background, wants to examine in greater detail the kinds of interdisciplinary contributions to contemporary decision-making processes that characterize modern impact assessment project development. Each volume contains the contents of all volumes. The state of the art of the impact assessment of recycled hazardous waste materials on surface and ground waters is presented. The topics include chemodynamics, toxicology, modeling and information systems. The book is useful to the reader who, regardless of disciplinary background, wants to examine in greater detail the kinds of interdisciplinary contributions to contemporary decision-making processes that characterize modern impact assessment project development.

Liu, David H. F. et al. ***Environmental Engineers' Handbook***. 2nd ed. New York: Lewis Publishers, 1997.

Science Library [Reference] TD 145 .E574 1997

This is a comprehensive handbook on all aspects of environmental engineering, including multiple chapters devoted to explaining and analyzing wastewater treatment, removing specific water contaminants, and groundwater and surface water pollution.

Mays, Larry W., Ed. ***Stormwater Collection Systems Design Handbook***. New York: McGraw Hill, 2001.

Science Library [Reference] TD665 . S757 2001

This handbook, written by leading experts, offers the most comprehensive, state-of-the-art coverage on the design of stormwater collection systems. A unique work, this compendium provides detailed coverage of the latest design methods and tools for analyzing stormwater collection systems. Each chapter offers expert, detailed, professional guidance on the important components of stormwater collection. These features include: design procedures and detailed examples of inlets, sewers, both in-line and off-line detention systems, infiltration systems, and pump facilities; specialized procedures for the design and implementation of distributed stormwater control and reuse and stormwater treatment using wetland systems; procedures for the removal of urban litter and sediment movement in sewers; and design procedures and detailed examples of drainage channels, flow channels, and energy dissipates. There are detailed illustrations throughout the book.

Mays, Larry W., Ed. *Water Distribution Systems Handbook*. New York: McGraw-Hill, 1999.
VKC Library [Bookstacks] TD 481 .W375

This handbook is a comprehensive reference book on water distribution systems in both urban and rural environments. The book is intended to capture the "substantial new knowledge" that has been developed concerning the design, operation, and analysis of water distribution systems, especially as these issues relate to water quality of storage, modeling of water quality, optimal operation, and reliability of water distribution systems. The opening chapter provides a brief history of water distribution and includes an index.

Petts, Judith. *Handbook of Environmental Impact Assessment*. 2 vols. Oxford: Blackwell Science, 1999.

VKC Library [Bookstacks]; Doheny Library [Bookstacks] GE 145 .H35 1999

The first volume addresses environmental impact assessment principles, processes, and methods, placing in context the issue of sustainable development, and economic valuation. The second volume explores the transnational dimensions of environmental impact assessment, including the work of multilateral international organizations, arranged under six regionally focused chapters on Eastern Europe, East Asia, Africa, Central and South America, North America, and the European Union. Includes significant coverage of issues associated with water resources.

INDEXES AND ABSTRACTS

AccessUN. New Canaan, CT: Newsbank/Readex, 1996-.

Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/166.php

The Readex United Nations Index provides access to current and retrospective United Nations documents and publications. Articles appearing in UN periodicals are individually indexed. Indexing of the bilateral and multilateral treaties in the UN Treaty Series is another unique feature of the Index. Documents from the six main bodies of the United Nations—General Assembly, Security Council, Economic and Social Council, Trusteeship Council, Secretariat and International Court of Justice—are indexed. Masthead documents (formerly referred to as mimeographed documents), Official Records, sales publications, limited and restricted documents, and documents emanating from sessional and standing committees, functional commissions, conferences and regional bodies are the basis of the Index. Full-text resolutions from the General Assembly, Security Council and the Economic and Social Council are appended to their respective bibliographic citations. The Index supports access to the microfiche and paper formats of your library's United Nations holdings. Readex provides libraries with a comprehensive microfiche collection of non-copyrighted United Nations documents and publications. The "Readex Year" field readily identifies documents included in the Readex microfiche collection. This is the primary database to use when searching for information about UN initiatives related to urbanization and economic development.

Avery Index to Architectural Periodicals. Mountain View, CA: Research Libraries Group, 1977-.

Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/18.php

This resource indexes more than 1,000 periodicals published worldwide on archaeology, city planning, interior design, and historic preservation, as well as architecture. Updated daily, Avery currently covers journals from 1977 to the present. Simple search allows keyword searches of selected fields. The advanced search option allows you to select fields and construct phrase searches using Boolean operators. Includes good coverage of research journals in urban and regional planning.

Environmental Policy Index. Birmingham, AL: EBSCO Industries, 1950-.

Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/1702.php

Environmental Policy Index offers comprehensive coverage in applicable areas of agriculture, ecosystem ecology, energy, natural resources, marine & freshwater science, geography, pollution & waste management, environmental technology, environmental law, public policy, social impacts, urban planning, and more. The database offers cover-to-cover indexing and detailed abstracts for well over 1,000 international journals, with ongoing coverage for over 500 titles, providing a global perspective on important issues. The database features an in-depth thesaurus, and extensive subject area coverage ranging as far back as 1950.

ESA Journals Online. Washington, DC: Ecological Society of America.

Electronic Resources Web Page

<http://www.esajournals.org/>

The Ecological Society of America (ESA) is a nonpartisan, nonprofit organization of scientists founded in 1915 to promote ecological science by improving communication among ecologists; raise the public's level of awareness of the importance of ecological science; increase the resources available for the conduct of ecological science; and, ensure the appropriate use of ecological science in environmental decision making by enhancing communication between the ecological community and policy-makers. This database allows you to search all of the suite of journals produced by the Society.

Index to Current Urban Documents. Westport, CT: Greenwood Press, 1972-2000.

VKC Library [Bookstacks] Z 7165. U5I654

This index contains bibliographic descriptions of local and regional government documents issued by about 300 of the larger cities and counties of the U.S. and Canada. The documents cover a broad range of urban planning issues, including development plans, budgets, ordinances, surveys, and zoning. . The print index has been published since 1972 as a quarterly publication consisting of three paperback issues and a yearly cumulative issue. Entries are arranged geographically by city or county and by the name of the department issuing the document. The Index contains citations of local government and local government-related publications. State documents that deal specifically with an eligible city or county may be included. The documents indexed are part of an archival microfiche collection held at the University of California-Berkeley and can be obtained through interlibrary loan. Index now only available online, which U.S.C. currently does not have a subscription.

International Development Abstracts. Norwich, UK: Elsevier Science Publishers, 1982-. Monthly.

VKC Library [Reference] HD 72.I57

International Development Abstracts was founded in response to the need for a reference journal covering the growing literature on topics and issues relating to developing countries and remains the leading bibliographical reference source in the field. Papers are divided into 40 main headings including sections on agriculture and rural development; environment and development; industrial policy; social policies such as health, housing, and education; health, demography; gender and culture; aid, international relations and politics. Abstracts are taken from over 2,000 science journals with title translation and abstract for non-English papers. A cumulative index is published at the end of each year. Also available as part of the GEOBASE on-line database.

Journal of Planning Literature. Newbury Park, CA: Sage Publications, 1985-. Quarterly.
Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/7609.php

This is the most comprehensive index to recent books and journal articles in the field of urban and regional planning. The Journal aims to give the reader an understanding of the state of knowledge of the field for use in research or professional practice in planning and design. The Journal publishes review articles, annotated bibliographies, listings and abstracts of recent literature in city and regional planning design. Each issue contains one to three refereed literature reviews; book reviews; several hundred abstracts of books, journal articles, dissertations, and several hundred bibliographic listings.

PAIS: Public Affairs Information Service. New York: Public Affairs Information Service, 1915-.
Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/415.php

"A selective list of the latest books, periodical articles, government documents, pamphlets, microfiche, and reports of public and private agencies relating to business, economics and social conditions, public policy and administration, and international relations." Includes foreign language materials and brief annotations for many entries. Excellent source of international information about specific cities, towns or regions.

Pollution Abstracts. Bethesda, MD: Cambridge Scientific Abstracts, 1970-. Bi-monthly.
Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/10724.php

Pollution Abstracts indexes worldwide literature concerning all forms of environmental pollution. Among the subjects covered are sewage and wastewater treatment, waste management, land development pollution, international agreements, and environmental policies, programs, legislation, and education. Includes a separate section citing papers presented at selected recent conferences and an author and subject index.

Sage Urban Studies Abstracts. Thousand Oaks, CA: Sage Publications, 1973-. Quarterly.
Electronic Resources Web Page

http://www.usc.edu/e_resources/isd/gateways/2734.php

Provides comprehensive abstracts of the contents of over 1,000 books, journal articles, government documents, pamphlets, and research studies annually and covering all aspects of urban studies and planning. Entries are arranged under fifteen subject categories. Includes a cumulative author and subject index in the last issue of each year.

Web of Science Citation Indexing Service. Philadelphia, PA: Institute for Scientific Information, 1987-. Daily.

Electronic Resources Web Page

http://www.usc.edu/isd/electresources/gateways/web_of_science.html

The Web of Science ISI Citation Databases are multidisciplinary databases of bibliographic information indexed so that you can search for specific articles by subject, author, journal, and/or author address. USC has access to three citation databases. The *Science Citation Index* is a multidisciplinary database, with searchable author abstracts, covering the journal literature of the sciences. It indexes 5,300 major journals across 164 scientific disciplines, covering approximately 2,000 more journals than its SCI print and CD-ROM counterparts, with all cited references captured. The *Social Sciences Citation Index* is a multidisciplinary database, with searchable author abstracts, covering the journal literature of the social sciences. It indexes 1,700 journals spanning 50 disciplines, as well as covering individually selected, relevant items from over 3,300 of the world's leading scientific and technical journals. *Arts & Humanities Citation Index* is a multidisciplinary database covering the journal literature of the arts and humanities. It

indexes 1,100 of the world's leading arts and humanities journals, as well as covering individually selected, relevant items from over 6,800 major science and social science journals.

STATISTICAL SOURCES

Statistical Universe. Bethesda, MD: Congressional Information Service, 1998-.

Electronic Resources Web Page

<http://was.usc.edu/eresources/isd/gateways/434.php>

Statistical Universe abstracts include a detailed description of a publication's statistical contents and primary bibliographic information like title, date, collation, agency report number (if any), and periodicity. Whenever possible, the Superintendent of Documents classification number, the Library of Congress card number, the Government Printing Office (GPO) *Monthly Catalog* entry number, the GPO stock number, and the depository item number are also included. The abstract may also contain two hypertext links - one to the agency's World Wide Web site where the full text of the publication may be viewed and downloaded; the other to the full text on Statistical Universe, where the publication can be viewed, downloaded and accessed section by section or table by table. Also includes access to the Statistical Abstract of the United States.

Toxic Release Inventory. Washington: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics, 1987-. Annual.

Web: <http://www.epa.gov/tri/>

The Toxics Release Inventory (TRI) is a publicly available EPA database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. The EPA is required by law to establish a national inventory of toxic chemical emissions from certain facilities and to make this information publicly available through a computer database. Required information includes: Name, location and type of business; an estimate of maximum amounts of the toxic chemical present at the facility at any time during the preceding year; and the quantity of the chemical entering the air, land and water annually.

INTERNET RESOURCES

American Water Works Association. Denver, CO: The Association, 2007.

Web Address: <http://www.awwa.org/>

The American Water Works Association is an international nonprofit scientific and educational society dedicated to the improvement of drinking water quality and supply. Founded in 1881, AWWA is the largest organization of water supply professionals in the world. Its more than 50,000 members represent the full spectrum of the drinking water community: treatment plant operators and managers, scientists, environmentalists, manufacturers, academicians, regulators, and others who hold genuine interest in water supply and public health. Membership includes more than 3,700 utilities that supply water to roughly 170 million people in North America.

California Department of Water Resources. Sacramento, CA: The Department, 2007-.

Web Address: <http://www.water.ca.gov/>

The Department was created to serve local water needs by providing technical assistance; cooperating with local agencies on water resources investigations; supporting watershed and river restoration programs; encouraging water conservation; exploring conjunctive use of ground and surface water; facilitating voluntary water transfers; and, when needed, operating a State drought water bank. To that end, the web site includes links to Water Commission Reports, state-wide water project reports, a calendar of events, and other agency home pages.

Google Directory: Urban and Regional Planning. Mountain View, CA: Google Inc. 2007-.

Web: http://www.google.com/alpha/Top/Science/Social_Sciences/Urban_and_Regional_Planning/

Google Web Directory integrates Google's sophisticated search technology with Open Directory pages to create useful guides to subject-specific sites on the web. Web sites are selected by Open Directory volunteer editors. Google then applies its ranking system and other factors to rank the sites based on their importance. However, there are options to simply alphabetize the lists. Related categories contain web pages that are similar to the ones in the category you are looking at, but in a different part of the directory. The largest subcategories on each page are listed in bold letters, helping the user find the most popular categories in the directory more quickly. Good place to begin a search of urban planning-related sites on the Internet.

Water Online

Producer: Water Online

Web Address: <http://www.wateronline.com/>

The *Water Online* database serves the information needs of engineers, planners, operational and financial managers, consultants, elected officials, government personnel and others who are involved in the municipal water supply industry, and the municipal and industrial wastewater treatment field. The web site provides access to the basic operational elements of this industry, including resource management, supply, treatment and distribution of drinking water, and the collection, treatment and disposal of wastewater, as well as the many ancillary functions that accompany them, for example, storm water management and sludge conditioning and disposal.