



IRC

International Water and Sanitation Centre

WHO Collaborating Centre

A Guide to Secondary Sources of Information

On low-cost Rural and Urban Water Supply and Sanitation for Developing Countries



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IRC INTERNATIONAL WATER AND SANITATION CENTRE

IRC is an independent, non-profit organization. It is supported by and linked with the Netherlands Government, UNDP, UNICEF, the World Bank and WHO. For the latter it acts as a Collaborating Centre for Community Water Supply and Sanitation.

The centre facilitates the availability and use of appropriate knowledge and information in the water, sanitation and related environment sector in developing countries.

Activities include capacity development for information management, exchange of available knowledge and information, and development and transfer of new knowledge on priority issues. All activities take place in partnership with organizations in developing countries, United Nations organizations, bilateral donors, development banks, and non-governmental organizations.

Emphasis in programme activities is on community-based approaches including rural and low-income urban water supply and sanitation systems, community participation and hygiene education, gender issues, sustainable systems, rehabilitation and environmental management.

The multi-disciplinary staff provides this support through development and demonstration projects, training and education, publications, documentation services, and general information dissemination, as well as through advisory services and evaluation.

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A Guide to Secondary Sources of Information
On Low-cost Rural and Urban Water Supply and Sanitation
for Developing Countries

by

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Preface

This guide is an attempt to address the question *how* and *where* to find information of relevance to the water supply and sanitation sector in developing countries. It will help fill a gap in the sector which has existed for a considerable time. The document should be of use to:

- a. people or organizations interested in setting up small libraries or documentation units in developing countries relating to water supply and sanitation;
- b. people interested in finding out how and where to find information on low-cost rural and urban water supply and sanitation for developing countries.

The guide has been designed to be of practical value to the potential users described above. It has come about thanks to the help of my colleagues Ms. Bettie Westerhof and Mr. Cor Dietvorst, whose advice and suggestions have been very much appreciated. Other constructive criticisms were also received from a number of external reviewers who kindly reviewed the first draft of the guide.

The document does not claim to be exhaustive and any suggestions for improvements, additions or modifications should be sent to:

The Documentation Unit,
International Reference Centre (IRC),
PO Box 93190,
2509 AD The Hague,
The Netherlands.

Introduction

Objective

This guide endeavours to provide a systematic listing of secondary sources of information on low-cost rural and urban water supply and sanitation. Secondary sources of information is taken here to mean a document containing records of knowledge which has been published before.

The structure of this guide is as follows:

Part 1: Subject Definition

- 1.1 Dictionaries/glossaries
- 1.2 Bilingual and multilingual dictionaries
- 1.3 Thesauri

Part 2: Identification of Publications

- 2.1 Bibliographies and literature reviews
- 2.2 Abstract journals and current awareness bulletins
- 2.3 Data bases

Part 3: Organizations

- 3.1 Directories
- 3.2 (International) Organizations
- 3.3 Networks

This sequence has been chosen to help anybody with specific subjects of enquiry. This is why Part 2 is preceded by a section listing documents concerned with terminology in the field of low-cost rural and urban water supply and sanitation for developing countries.

Before any subject search is undertaken, the subject of the search needs to be clearly defined with the help of documents mentioned in Part 1. It should be noted that some of the documents shown in Part 1 will also relevant for some of the data bases mentioned in section 2.3, as thesauri are today the main means of indexing the subject content of documents described in data bases. An idea of the structure of a particular thesaurus may well increase the effectiveness of searching in a particular data base.

The listing of documents in this guide will generally only be limited to those documents published in or after 1985. Any documents included which have been published before this date have been included because they describe key aspects of water supply and sanitation in developing countries or because they help to indicate the development of knowledge on the subject(s) concerned.

A conscious decision has been made not to include a separate list of relevant journals for the sector as this is to be found in the IRC Reference Series publications numbers 6 and 7 mentioned section 2.2 of this guide. It should be noted, however, that section 3.2 on organizations, does mention some of the serial publications produced by the various organizations.

Three steps for finding information

The simplified scheme below attempts to show how to use this document. It illustrates how the three Parts of the guide should be used, depending on the type of user. These steps are:

1. Subject definition;
2. Searching for and identifying (relevant) publications; and
3. Obtaining information through organizations.

STEP 1: SUBJECT DEFINITION

Define, using thesauri/dictionaries/glossaries, the subject in which you are interested. The more precisely this can be defined the easier the search.

STEP 2: SEARCH FOR AND IDENTIFY RELEVANT PUBLICATIONS

Consult bibliographies, literature reviews, and data bases to find out which documents have been written on the subject under consideration.

STEP 3: OBTAINING INFORMATION THROUGH ORGANIZATIONS

Some of the publications identified in step 2, may well mention organizations which are worth contacting for the documents identified or for further information on a particular subject. In this context Part 3 of this document may be useful in finding out how to contact a particular organization.

These three steps run parallel to the structure provided in this guide. For those interested in setting up a water supply and sanitation resource centre in a developing country, Parts Two and Three in particular, ought to serve as useful reference points for the identification of publications and organizations producing relevant information.

Where to find information

One thing which seems to be frequently overlooked is that information is often locally available in individual countries. A quick look in the local telephone directory often yields a list of donor organizations (usually housed in embassies), local offices of international organizations, and relevant government departments. These may have directly at hand some of the information required, or they may be in a position to obtain the original documents relatively quickly.

Only when the local options for finding information on a particular subject relating to water supply and sanitation in developing countries have been exhausted, is it conceivable that an inquirer may wish to obtain a picture of the state of knowledge on particular subject by using a combination of some of the secondary sources of information detailed in this document.

The guide does not claim to describe all possible lines of enquiry, but it is hoped that the approach suggested here will be useful in suggesting an effective way of going about looking for information.

At the end of the document there is a list of useful publications for further reading relating to establishing resource centres in developing countries. Appendix 1 describes IRC's work for the Lusophone countries, and in particular the Inventory of Information Sources in Portuguese. Appendix 2 is comparison between on-line data bases and data bases on CD-ROM.

PART ONE: SUBJECT DEFINITION

In the field of water supply and sanitation, a number of relevant dictionaries and glossaries have been published. There are various types of dictionaries, but for the purpose of this guide we distinguish the following categories:

- A. **GLOSSARY**
- B. **DICTIONARY**
- C. **BILINGUAL DICTIONARY**
- D. **MULTILINGUAL DICTIONARY**

A glossary can best be defined as a kind of dictionary which translates the technical terms of a language into more normal easy-to-understand words of the same language. In some cases, the equivalent term is given in one or more foreign languages. It should be apparent from the division in section 1.1 that the distinction between a glossary and a dictionary is often more a question of semantics, and that the terms are used somewhat loosely by those publishing such documents. What is clear, however, is that a number of bilingual or multilingual dictionaries have been published which purely list translations of terminology from one language into one or more other languages. Such documents are vital for creating an appropriate climate for the flow information between individuals and organizations in an international sector such as that of water supply and sanitation. This is why they have been included here under subject definition.

No single dictionary or glossary has been produced which covers all the relevant aspects of the issues relating to water supply and sanitation for developing countries. The titles listed below cover most general aspects of the subject.

1.1 DICTIONARIES AND GLOSSARIES

Chhatwal, G.R.; Pandey, D.K. and Nanda, K.K. (1988)

Encyclopaedic dictionary of environment

New Delhi, India, Anmol, 4 vols (1,279 p.)

Subject(s): ENVIRONMENTAL SCIENCE, AIR POLLUTION, WATER POLLUTION, NOISE POLLUTION, ENVIRONMENTAL MANAGEMENT, ECOLOGY, WASTES, FORESTRY

DICTIONARY

Number of entries: 7,400 +

Patrick, P.K. (1980)

Glossary on solid waste

Copenhagen, Denmark, World Health Organization, Regional Office for Europe. 92 p.

Subject(s): SOLID WASTE MANAGEMENT

GLOSSARY

Number of entries: ca. 700

Language: English

Rogers, Bob G. et al. (1981)

Glossary water and wastewater control engineering. 3rd ed.

Washington, DC, USA, American Public Health Association. xii, 441 p.

Subject(s): SANITARY ENGINEERING

GLOSSARY

Number of entries: ca 5,620

Language: English

Scott, John S. and Smith, Paul G. (1981)

Dictionary of waste and water treatment.

London, United Kingdom, Butterworths. 350 p.

Subject(s): WATER TREATMENT AND SUPPLY, SEWERAGE, SEWERAGE TREATMENT AND DISPOSAL, POLLUTION PREVENTION, SOLID WASTE DISPOSAL AND RECLAMATION, TOXIC AND HAZARDOUS WASTE DISPOSAL

DICTIONARY

Number of entries: 6,000

Language: English

UNESCO and WMO (1974)

International glossary of hydrology = Glossaire international d'hydrologie = Glosario hidrológico internacional.

Geneva, Switzerland, World Meteorological Organization. xx, 393 p.

Subject(s): HYDROLOGY, SURFACE WATER, GROUNDWATER, WATER RESOURCES MANAGEMENT

GLOSSARY

Number of entries: 1,588

Language(s): English, French, Russian, Spanish

1.2 BILINGUAL AND MULTILINGUAL DICTIONARIES

Biron, Paul J. (1987)

Terminology of water supply and environmental sanitation : English-French : a World Bank-UNICEF glossary = Terminologie de l'approvisionnement en eau et de l'assainissement du milieu : français-anglais : glossaire edité conjointement par la Banque Mondiale et l'UNICEF. Washington, DC, USA, World Bank. v, 171 p.

Subject(s): WATER SUPPLY, ENGINEERING, SANITARY ENGINEERING

BILINGUAL DICTIONARY

Number of entries: ca. 12,900

Language(s): English, French

CEPIS (1990)

Vocabulario en español, inglés y portugués de ingeniería sanitaria y ciencias del ambiente. Lima, Peru, Centro Panamericano de Ingeniería Sanitaria y Ciencias del Ambiente. 108 p.

Subject(s): SANITARY ENGINEERING, ENVIRONMENTAL SCIENCES

MULTILINGUAL DICTIONARY

Number of entries: ca. 8,050

Language(s): Spanish, Portuguese, English

CETESB (1985)

Dicionário de termos técnicos de saneamento ambiental : Portugues/Inglês - Inglês/Portugues. Sao Paulo, Brazil, Convenio CETESB - ASCETESB. 198 p.

Subject(s): SANITATION, TECHNOLOGY

BILINGUAL DICTIONARY

Number of entries: ca. 16,000

Language(s): English, Portuguese

Meinck, Fritz and Moehle, Helmut (1983)

Wörterbuch für das Wasser- und Abwasserfach = Dictionary of water and sewage engineering = Dictionnaire technique de l'eau et de l'assainissement = Dizionario tecnico delle acque e delle acque di rifiuto. 3rd. rev. and enl. ed. Munich, Germany, Oldenbourg. 937 p.

Subject(s): WATER ENGINEERING, SANITARY ENGINEERING

MULTILINGUAL DICTIONARY

Number of entries: 12,018

Language(s): German, English, French, Italian

Tuin, J.D. van der (1991)

Elsevier's dictionary of water and hydraulic engineering : in five languages, English, French, Spanish, Dutch and German.

Amsterdam, The Netherlands, Elsevier. 527 p.

Subject(s): WATER, WATER MANAGEMENT, HYDRAULIC ENGINEERING, EXPERIMENTAL ASPECTS

MULTILINGUAL DICTIONARY

Number of entries: 5,000 +

Language(s): English, French, Spanish, Dutch, German

United Nations (1977)

A provisional list of terms relating to water : compiled for use by translators and interpreters at the United Nations Conference. New York, NY, USA, Documentation and Terminology Service, United Nations.

2 vol. (195, 128 p.)

Subject(s): WATER SUPPLY, SANITATION

MULTILINGUAL DICTIONARY

Number of entries: ca. 1,950

Language(s): English, French, Spanish, Russian

World Bank (1985)

English-French sanitation glossary = Glossaire français-anglais de l'assainissement. Washington, DC, USA, Technology Advisory Group, World Bank. 50 p.

Subject(s): SANITATION

BILINGUAL DICTIONARY

Number of entries: ca. 300

Language(s): English, French

World Bank (1986)

Pumping glossary : English/French/Spanish : (with definitions and illustrations). Washington, DC, USA, Terminology Unit, World Bank. 32 p.

Subject(s): PUMPS

MULTILINGUAL DICTIONARY (with some definitions)

Number of entries: ca. 230

Language(s): English, French, Spanish

The value of thesauri in subject definition has increased in recent years as the majority of information today is stored in bibliographic data bases which employ such controlled and dynamic documentary languages for computer information retrieval purposes. The following represent a list of the main thesauri which cover or touch upon the fields water supply, sanitation, and environment.

The format given here aims to provide an indication of the subject area(s) covered by each thesaurus, the number of descriptors, the relational presentation of the descriptors (i.e. in respect of equivalence (synonyms) (U = Use, UF = Used For), the hierarchical relationships (BT = Broader Term, NT = Narrower Term) and associative relationships (RT = Related Term). If a descriptor needs further explanation a Scope Note (SN) is sometimes provided which helps to define the meaning of a particular descriptor. An indication is also given of the main language(s) of each thesaurus.

1.3 THESAURI

Association Française pour l'Etude des Eaux (1983)

Thesaurus national de l'eau : français, anglais, allemand,

espagnol, italien. Valbonne, France, Association Française pour l'Etude des Eaux (AFEE). 83 p.

Subject(s): WATER SUPPLY

Number of Descriptors:

Relational Structure(s): U, UF, RT

Language(s): French, English, German, Spanish, Italian

Other relevant points: See also Office International de l'Eau (International Office for Water) section 3.2

CEPIS (1989)

Tesauro de ingenieria sanitaria y ciencias del ambiente. Lima, Peru, Centro Panamericano de Ingenieria Sanitaria y Ciencias del Ambiente. iv, 303 p.

Subject(s): ENVIRONMENTAL HEALTH AND SANITATION, ENVIRONMENTAL AND SANITARY ENGINEERING, APPLIED ENVIRONMENTAL SCIENCE, WATER RESOURCES AND WATER POLLUTION, WATER SUPPLY, WASTEWATER, SOLID WASTE, SOILS, AIR, OCCUPATIONAL HEALTH AND INDUSTRIAL SAFETY

Number of Descriptors: 2,233

Relational Structure(s): SN, UF, BT, NT, RT

Language: Spanish

CEHA (1991)

Interwater thesaurus : based on the IRC interwater thesaurus for community water supply and sanitation English original : Volume One English/Arabic.

Amman, Jordan, Centre for Environmental Health Activities. ix, 523 p.

Subject(s): WATER SUPPLY, WATER QUALITY, WATER USE, WATER AND WASTEWATER TRANSPORT, SANITATION, HEALTH, COMMUNITIES AND ORGANIZATIONS, ADMINISTRATION, ECONOMICS AND LEGISLATION, INFORMATION TRANSFER, GEOGRAPHY, MATERIALS

Number of Descriptors: 2,100

Relational Structure(s): U, UF, BT, NT, RT

Language(s): English, Arabic

CIEH (1984)

Thesaurus eau pour l'Afrique. Ouagadougou, Burkina Faso, Comité Inter africain d'Etudes Hydrauliques. - 110 p.

Subject(s): WATER SUPPLY, SANITATION, AFRICA

Number of Descriptors: ca. 600

Relational Structure(s): RT, U, UF

Language: French

ENSIC (1988)

Ensic controlled vocabulary. Bangkok, Thailand, Environmental Sanitation Center. 64 p.

Subject(s): ON-SITE COLLECTION AND TREATMENT, COLLECTION AND OFF-SITE TREATMENT, REUSE, WASTE MANAGEMENT, WATER MANAGEMENT

Number of Descriptors: ca. 2,000

Relational Structure(s): BT, NT, RT, also has Terms Rarely Used (either too broad or too narrow)

Language: English

UNEP (1990)

Thesaurus of environmental terms. 3rd. ed. Nairobi, Kenya, Infoterra, United Nations Environment Programme. xi, 190 p.

Subject(s): ENVIRONMENT, FRESHWATER, HUMAN SETTLEMENTS, POLLUTION AND WASTES, HUMAN HEALTH

Number of Descriptors: ca. 920

Relational Structure(s): SN, U, UF, BT, NT, RT

Language: English

Leatherdale, Donald (1987)

Interwater thesaurus for community water supply and sanitation. The Hague, The Netherlands, International Reference Centre for Community Water Supply and Sanitation.

2 vol. (253, 112 p.)

Subject(s): WATER SUPPLY, WATER QUALITY, WATER USE, WATER AND WASTEWATER TRANSPORT, SANITATION, HEALTH AND ENVIRONMENT, COMMUNITIES AND SOCIETY, ADMINISTRATION, ECONOMICS AND LEGISLATION, INFORMATION TRANSFER, GEOGRAPHY, MATERIALS

Number of Descriptors: 1,752

Relational Structure(s): SN, U, UF, BT, NT, RT

Language(s): English, French, Spanish

SAWIC (1990)

SAWIC thesaurus. Pretoria, South Africa, South African Water Information Centre.

2nd ed. 350 p.

Bound computer print-out in thesaurus format

Subject(s): WATER SUPPLY, SANITATION

Number of descriptors: ca. 8,500

Relational Structure(s): US, UF, BT, NT, RT

Language: English

Smith, Joyce G. and Jennings, Peter G. (1987)

Aqualine thesaurus. 2nd ed. Chichester, England, Ellis Horwood. 994 p.

Subject(s): WATER RESOURCES AND SUPPLIES, WATER QUALITY, MONITORING AND ANALYSIS OF WATER AND WASTES, WATER TREATMENT, UNDERGROUND SERVICES AND WATER USE, SEWAGE, INDUSTRIAL EFFLUENTS, EFFECTS OF POLLUTION

Number of Descriptors: Contains about 43,000 index terms (13,000 main terms and 30,000 non-preferred terms)

Relational Structure(s): U, UF, SN,

Language: English

Smithsonian Science Information Exchange and Water Resources Scientific Information Center (1980)

Water resources thesaurus : a vocabulary for indexing and retrieving the literature of water resources research and development. 3rd ed. Washington, DC, USA, U.S. Department of the Interior, Office of Water Resources Research, Water Resources Scientific Information Center. 132 p.

Subject(s): HYDROLOGICAL CYCLE, SUPPLY AND DEMAND FOR WATER, CONSERVATION AND THE BEST USE OF AVAILABLE SUPPLIES OF WATER, METHODS OF INCREASING SUCH SUPPLIES, AND THE ECONOMIC, LEGAL, SOCIAL, ENGINEERING, RECREATIONAL, BIOLOGICAL, GEOLOGICAL, ECOLOGICAL, AND QUALITY ASPECTS OF WATER RESOURCES:

Number of Descriptors: 4,000 +

Relational Structure(s): U, UF, BT, NT, RT

Language: English

Other relevant points: The principal source of new and revised terms for the Thesaurus has been the indexing performed for Selected Water Resources Abstracts (SWRA). The Thesaurus has three sections: Thesaurus of Descriptors, Descriptor Words, and Descriptor List.

UNICEF (1988)

UNICEF thesaurus. [2nd rev. ed.] New York, USA, UNICEF. 219 p.

Subject(s): POLICIES AND GOALS, INTERNATIONAL COOPERATION, CHILD DEVELOPMENT AND ENVIRONMENT, PROGRAMMES AND SERVICES, HEALTH, PEOPLE, INFORMATION AND RESEARCH AND IDENTIFIERS

Number of Descriptors: ca. 1,500

Relational Structure(s): U, UF, SN, BT, NT, RT

Language: English

PART TWO IDENTIFICATION OF PUBLICATIONS

One of the quickest ways of finding out about what has been written on a particular subject is to consult a bibliography on that subject. A bibliography usually consists of a printed list of formal descriptions of documents. In this section the distinction has been made between:

- A. **BIBLIOGRAPHIC LIST**
- B. **BIBLIOGRAPHIC LIST (Series)**
- C. **ANNOTATED BIBLIOGRAPHY**
- D. **LITERATURE REVIEW**

The main problem with these types of documents is that they soon become dated. They can only describe the state of knowledge on a subject up to a fixed point in time.

A literature review is a survey of progress in a particular aspect of science over a given period (e.g. one, five, or ten years); it may range from a bibliographical index or a mere list of references, to a general critical review of original publications on the subjects covered. This is why the distinction between a literature review and a bibliography is not always easy to define. A bibliography has more the function of recording what has been written on a subject in an objective way, while literature reviews permit the introduction of more subjective analysis of a topic based on the evidence in the literature under discussion. Nevertheless, both kinds of documents are able to provide useful indications on the state of knowledge on particular subjects up to a defined point in time.

2.1 BIBLIOGRAPHIES AND LITERATURE REVIEWS

Bastemeyer, Teun and Visscher, Jan Teun (1987)

Maintenance systems for rural water supplies. (Occasional paper series ; no. 8).

The Hague, The Netherlands, International Reference Centre for Community Water Supply and Sanitation. 43 p.

65 refs.

Subject(s): MAINTENANCE, RURAL SUPPLY SYSTEMS

Period covered: 1977-1986

LITERATURE REVIEW

Language: English

Besselink, Jos (1987)

A literature study of research, applied to hand- and foot-operated piston pumps relating to dynamic behaviour, stress and fatigue : completed, continuing and planned research. Arnhem, InterAction Design. 12 p.

27 refs.

Subject(s): HAND PUMPS, FOOT PUMPS

Period covered: 1977-1986

LITERATURE REVIEW

Language: English

Blum, Deborah and Feachem, Richard (1985)

Health aspects of nightsoil and sludge use in agriculture and aquaculture.

Part III : An epidemiological perspective. (IRCWD report ; no. 05/85). Duebendorf, Switzerland, International Reference Centre for Waste Disposal. 81 p.

91 refs.

Subject(s): HEALTH ASPECTS, WASTE REUSE, AGRICULTURE, AQUACULTURE

Period covered: 1913-1983

LITERATURE REVIEW

Language(s): English

Carney, Bernadette (1987)

Water supply and sanitation for developing countries : an international sourcelist of audiovisual materials. Geneva, Switzerland, World Health Organization,

Community Water Supply and Sanitation Unit, Division of Environmental Health. 78 p.

76 refs.

Subject(s): WATER SUPPLY AND SANITATION, AUDIOVISUAL MATERIALS (16mm films and videos, slides, filmstrips, posters, flashcards, flipcharts, miscellaneous)

Period covered: 1961-1985

BIBLIOGRAPHIC LIST (of audiovisual material including short abstracts)

Distributors, title, subject indexes

Language: English

Burgers, Lizette; Boot, Marieke and Wijk-Sijbesma, Christine van (1988)

Hygiene education in water supply and sanitation programmes :

literature review with selected and annotated bibliography. (Technical paper series ; no. 27). The Hague, The Netherlands, IRC International Water and Sanitation Centre. xvi, 144 p.

582 refs.

Subject(s): HYGIENE EDUCATION, AFRICA, ASIA, CENTRAL AND LATIN AMERICA AND THE CARIBBEAN

Period covered: 1954-1988

LITERATURE REVIEW

Country index

Language: English

CEHA (1989-)

Environmental health bibliography. Amman, Jordan, Centre for Environmental Health Activities. Vol. 1 -

927 refs.

Subject(s): WATER SUPPLY, SANITATION, POLLUTION, WATER RESOURCES, LEGISLATION, FOOD HYGIENE, WASTE MANAGEMENT AFGHANISTAN, BAHRAIN, CYPRUS, DJIBOUTI, EGYPT, IRAN, IRAQ, JORDAN KUWAIT, LEBANON, LIBYA, MOROCCO, OMAN, PAKISTAN, QATAR, SAUDI ARABIA, SOMALIA, SUDAN, SYRIA, TUNISIA, UNITED ARAB EMIRATES, YEMEN

Period covered: 1964-

BIBLIOGRAPHIC LIST (series)

Author, title and subject indexes

Language: English

CEPIS (1987)

Tecnología apropiada y de bajo costo en agua y saneamiento. Lima, Peru, Centro Panamericano de Ingeniería Sanitaria y Ciencias del Ambiente. 69 p.

432 refs.

Subject(s): APPROPRIATE TECHNOLOGY, WATER, SANITATION

Period covered: 1966-1986

ANNOTATED BIBLIOGRAPHY (all abstracts in Spanish)

Subject, author and institutional author indexes

Language(s): Spanish, English, French, Portuguese

CIEH (1989-)

Index eau - Afrique (Serie information).

Ouagadougou, Burkina Faso, Comité Interafricain d'Etudes Hydrauliques. No. 1 - ca. 500 refs per number.

Subject(s): WATER SUPPLY, SANITATION, AFRICA

Period covered: 1949-

BIBLIOGRAPHIC LIST (Series)

Author, subject and institution indexes

Language: French

Other relevant information: To date the following have been published: No. 1 Mali; No. 2 Burkina Faso; No. 3 Sahel; No. 4 Chad; No. 5 Niger; No. 6 Senegal and Gambia; No. 7 Mauritania, Cape Verde, and Guinea-Bissau; No. 8 Benin; No. 9 Ivory Coast; No. 10 Cameroon; and, No. 11 Togo.

Cross, Piers and Strauss, Martin (1986)

Health aspects of nightsoil and sludge use in agriculture and aquaculture.

Part I : Existing practices and beliefs in the utilization of human excreta ;

Part II : Pathogen survival. (IRCWD report ; no. 04/85). Duebendorf, Switzerland, International Reference Centre for Waste Disposal. Ca. 150 p. 106 refs.

Subject(s): HEALTH ASPECTS, WASTE REUSE, AGRICULTURE, AQUACULTURE, AFRICA

Period covered: 1924-1986

LITERATURE REVIEW

Language: English

Deshpande, V.P. and Kaul, S.N. (1991)

Utilization, treatment and disposal of sewage : a review

In: *Asian environment*, vol. 13, no. 1, p. 20-47

77 refs.

Subject(s): SEWAGE TREATMENT, DISPOSAL, USE, INDIA

Period covered: 1954-1986

LITERATURE REVIEW

Language: English

Diaz Arenas, Andres and Febrillet Huertas, Jose (1986)

Hydrology and water balance of small islands : a review of existing knowledge.

(Technical Documents in Hydrology). Paris, France, UNESCO. 25 p.

46 refs.

Subject(s): HYDROLOGY AND WATER BALANCE, CARIBBEAN, MEDITERRANEAN, AFRICA, PACIFIC

Period covered: 1961-1985

LITERATURE REVIEW

Language: English

Easson, M. Elaine et al. (1988)

Sanitation technologies for temperate and cold climates. (Environmental sanitation

reviews ; no. 25). Bangkok, Thailand, Environmental Sanitation Information Center,

Asian Institute of Technology. iv, 81 p.

28 refs.

Subject(s): SANITATION, TECHNOLOGY

Period covered: 1969-1985

LITERATURE REVIEW

Language: English

Ellis, K.V. (1985)

Slow sand filtration.

In: CRC critical reviews in environmental control, vol. 15, no. 4, p. 315-354.

101 refs.

Subject(s): SLOW SAND FILTRATION

Period covered: 1915-1984

LITERATURE REVIEW

Language: English

Ellis, K.V. (1991)

Water disinfection : a review with some consideration of the requirements of the Third World.

In: CRC critical reviews in environmental control, vol. 20, no. 5/6, p. 341-407.

434 refs.

Subject(s): DISINFECTION, DEVELOPING COUNTRIES

Period covered: 1892-1989

LITERATURE REVIEW

Language: English

Energy/Development International (1985)

Irrigation source book bibliography : presented as a planning meeting on improved water-pumping/water lifting systems for Africa. Washington, DC, USA, Energy/Development International, Energy Initiatives for Africa. 15 p.

82 refs.

Subject(s): IRRIGATION, WATER PUMPS, AFRICA

Period covered: 1956-1985

ANNOTATED BIBLIOGRAPHY

Language(s): English, French (2 titles)

ENSIC (1991)

ENSICNET bibliography. Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. 164 p.

657 refs.

Subject(s): ENVIRONMENTAL ISSUES, NON-CONVENTIONAL AND CONVENTIONAL COLLECTION METHODS, TREATING, USING AND RECYCLING WATER, SOLID WASTES AND WASTEWATER, WATER SUPPLY MANAGEMENT, WATER RESOURCES PLANNING, HYGIENE EDUCATION AND COMMUNITY PARTICIPATION WITH REFERENCE TO CHINA, INDONESIA, NEPAL, PHILIPPINES, VIETNAM

Period covered: 1961-1990

BIBLIOGRAPHIC LIST

Author and key word indexes

Language: English

Esrey, Steven A. and Habicht, Jean-Pierre (1986)

Epidemiologic evidence for health benefits from improved water and sanitation in developing countries.

In: Epidemiologic reviews, vol. 8, p. 117-128

96 refs.

Subject(s): HEALTH IMPACT, WATER SUPPLY, SANITATION, AFRICA, ASIA AND PACIFIC, LATIN AMERICA AND THE CARIBBEAN

Period covered: 1952-1985

LITERATURE REVIEW

Language: English

Esrey, Steven A. et al (1990)

Health benefits from improvements in water supply and sanitation : survey and analysis of the literature on selected diseases. (WASH technical report ; no. 66).

Arlington, VA, USA, Water and Sanitation for Health Project. ix, 73 p.

123 refs.

Subject(s): HEALTH IMPACT

Period covered: 1929-1989

LITERATURE REVIEW

Language: English

Furedy, Christine and Bubel, Anna Z. (1990)

Social aspects of solid waste recovery in Asian cities : with a report on waste picking and solid waste management. (Environmental sanitation reviews ; no. 30).

Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. 66 p.

31 refs.

Subject(s): WASTE RECYCLING, SCAVENGERS, SOLID WASTE MANAGEMENT, PHILIPPINES, INDONESIA, THAILAND, CHINA, NEPAL, PAKISTAN

Period covered: 1972-1988

LITERATURE REVIEW

Language: English

Fustukian, Suzanne; Condie, Alison and Elson, Margaret (1990)

Ahrtag resource list : health education on diarrhoeal diseases. London, United Kingdom, Appropriate Health Resources and Technologies Action Group, Resource Centre. 35 p.

193 refs.

Subject(s): PRIMARY HEALTH CARE, COMMUNITY HEALTH, COMMUNITY HEALTH EDUCATION, DIARRHOEAL DISEASES

Period covered: 1977-1988

BIBLIOGRAPHIC LIST (with brief annotations)

Language: English

Groundwater Survey (1989)

Inventory of well siting methods : final report. Rev. ed. (Well siting for low-cost water supplies ; vol. 1) Nairobi, Kenya, Groundwater Survey (Kenya). 61 + 34 p. ann.

111 refs.

Subject(s): WELL SITING METHODS

Period covered: 1978-1987

LITERATURE REVIEW

Language: English

Gould, John E. (1991)

Rainwater catchment systems for household water supply. (Environmental sanitation reviews ; no. 32). Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. iii, 57 p.

49 refs.

Subject(s): RAINWATER HARVESTING, RAINWATER STORAGE, STORAGE TANKS, DESIGN, CONSTRUCTION, THAILAND, PHILIPPINES, KENYA, BOTSWANA, AUSTRALIA

Period covered: 1929-1990

LITERATURE REVIEW

Language: English

Hewitt, Eleanor and Becker, Sarah (1986)

Cost recovery for water supply : a review of experience. Washington, DC, USA, World Bank. 52 p.

51 refs.

Subject(s): COST RECOVERY, WATER SUPPLY, CARIBBEAN, LATIN AMERICA, AFRICA, ASIA, EUROPE

Period covered: 1976-1986

LITERATURE REVIEW

Language: English

Humbaire, Bernard; Peter, Dominique and Prudhomme, Pierre (1988)

Hydraulique villageoise et ressources en eau souterraine en Afrique occidentale et centrale = Village water supply and groundwater resources in West and Central Africa. Paris, France, La Documentation française. 333 p.

108 refs.

Subject(s): RURAL SUPPLY SYSTEMS, GROUNDWATER RESOURCES, AFRICA

Period covered: 1966-1987

ANNOTATED BIBLIOGRAPHY

Subject, geographical, issuing authority, and author indexes

Language(s): English, French

International Centre for Diarrhoeal Disease Research, Bangladesh (1985)

Annotated bibliography on anthropological studies in diarrhoeal diseases. Dhaka, Bangladesh, International Centre for Diarrhoeal Disease Research, Bangladesh. 47 p. 147 refs.

Subject(s): DIARRHOEAL DISEASES, ATTITUDES, BELIEFS, PRACTICES AND KNOWLEDGE, CULTURAL PRACTICES, ECOLOGICAL FACTORS, CULTURAL ASPECTS, SOCIO-ECONOMIC ASPECTS

Period covered: 1953-1985

ANNOTATED BIBLIOGRAPHY (58 abstracts)

Author and subject indexes

Language(s): English, Spanish (one title)

International Centre for Diarrhoeal Disease Research, Bangladesh (1985)

Annotated bibliography on oral rehydration therapy. Dhaka, Bangladesh, International Centre for Diarrhoeal Disease Research, Bangladesh. 81 p. 261 refs.

Subject(s): ORAL REHYDRATION THERAPY (HISTORY, CLINICAL TRIALS, IMPACT, IMPLEMENTATION)

Period covered: 1949-1984

ANNOTATED BIBLIOGRAPHY (114 abstracts)

Author and subject indexes

Language: English

International Centre for Diarrhoeal Disease Research, Bangladesh (1986)

Annotated bibliography on water, sanitation and diarrhoeal diseases : roles and relationships. Dhaka, Bangladesh, International Centre for Diarrhoeal Disease Research, Bangladesh. 185 p. 803 refs.

Subject(s): GENERAL, DISEASE INCIDENCE AND PREVALENCE, ENVIRONMENTAL FACTORS, AND WATER POLLUTION AND CONTAMINATION, EVALUATION AND IMPACT STUDIES, HEALTH AND HYGIENE, HEALTH EDUCATION, INTERVENTIONS, PREVENTION AND CONTROL OF DISEASE, OCCURRENCE AND SURVIVAL OF MICROORGANISMS IN ENVIRONMENT, SOCIOCULTURAL ASPECTS, TRANSMISSION OF MICROORGANISMS, WATER-HEALTH RELATIONSHIPS

Period covered: 1894-1986

ANNOTATED BIBLIOGRAPHY (223 abstracts)

Author and subject Indexes

Language(s): English, Spanish (2 titles)

IRC (1991)

Inventory of selected training materials in water supply and sanitation = Inventaire des materiaux selectionnés pour la formation dans le secteur approvisionnement en eau et assainissement = Inventario de material seleccionado para la capacitacion en abastecimiento de agua y saneamiento.

(Reference series ; no. 7). The Hague, The Netherlands, IRC International Water and Sanitation Centre. 158 p.

45 refs.

Subject(s): TRAINING, WATER SUPPLY TECHNOLOGIES, SANITATION TECHNOLOGIES, POLICIES, HEALTH, EDUCATION, COMMUNITY PARTICIPATION, ADMINISTRATION, HUMAN RESOURCES DEVELOPMENT

Period covered: 1973-1990

ANNOTATED BIBLIOGRAPHY

Includes subject classification

Language(s): English, French, Spanish

IRC (1991)

List of basic publications on water supply and sanitation : a selected bibliography : a contribution to safe water 2000. (Reference series ; no. 6). The Hague, The Netherlands, IRC International Water and Sanitation Centre. 86 p.

130 refs.

Subject(s): WATER SUPPLY TECHNOLOGIES, SANITATION TECHNOLOGIES, POLICIES, HEALTH, EDUCATION, COMMUNITY PARTICIPATION, ADMINISTRATION, HUMAN RESOURCES DEVELOPMENT, ENVIRONMENTAL ENGINEERING

Period covered: 1964-1991

ANNOTATED BIBLIOGRAPHY

Includes a classification by subject

Language: English

Karlin, Barry and Visscher, Jan Teun (1988)

Water supply and sanitation in primary school education in developing countries : a preliminary study. (Occasional paper series ; no. 13). The Hague, The Netherlands, IRC International Water and Sanitation Centre. 42 p.

43 refs.

Subject(s): HYGIENE, HEALTH EDUCATION, SCHOOLS, AFRICA, ASIA, LATIN AMERICA AND THE CARIBBEAN

Period covered: 1978-1988

LITERATURE REVIEW

Language: English

Katko, Tapio S. (1991)

Paying for water in developing countries. (Publications / Tampere University of Technology ; no. 74). Tampere, Finland, Tampere University of Technology. 240 p. 171 refs.

Subject(s): WATER SUPPLY CHARGES, WATER USER COOPERATIVES, WATER COMMITTEES, PAYMENT, WATER COSTS, COST RECOVERY, COMMUNITY MANAGEMENT, COMMUNITY PARTICIPATION

Period covered: 1930-1991

LITERATURE REVIEW

Language: English

Kemper, Karin E. and Widstrand, Carl (1991)

Environmental sanitation in developing countries : a selected and annotated bibliography. Linköping, Sweden, University of Linköping, Department of Water and Environmental Studies.

83 p.

314 refs.

Subject(s): SANITATION, TANZANIA, KENYA

Period covered: 1938-1990

ANNOTATED BIBLIOGRAPHY (118 abstracts)

Language: English

Khon Kaen University (1986)

Bibliography of water resources development in Thailand. Khon Kaen, Thailand, Khon Kaen University, Water Resources and Environment Institute, Faculty of Engineering. Ca. 520 p.

1,483 refs.

Subject(s): WATER RESOURCES DEVELOPMENT, THAILAND

Period covered: 1943-1985

ANNOTATED BIBLIOGRAPHY

Key word index, listing by record number, author, title, source agency indexes

Language: English

Latham, Brian and Schiller, Eric (1987)

Rainwater collection systems : a literature review

In: Proceedings of the Third International Conference on Rain

Water Cistern Systems : [14-16 January 1987, Khon Kaen University]/ Vadhanavikkit, Chayatit. Khon Kaen, Thailand, Khon Kaen University, Faculty of Engineering. P. A1-1 - A1-29

267 refs.

Subject(s): RAINWATER STORAGE, DESIGN, CONSTRUCTION, WATER QUALITY, LATIN AMERICA, ASIA

Period covered: 1915-1986

LITERATURE REVIEW

Language: English

Lee, M.D. and Bastemeijer, T.F. (1991)

Drinking water source protection : a review of environmental factors affecting community water supplies. (Occasional paper series ; no. 15). The Hague, The Netherlands, IRC International Water and Sanitation Centre. ix, 66 p.

163 refs.

Subject(s): SOURCE PROTECTION

Period covered: 1968-1990

LITERATURE REVIEW

Language: English

Lewis, W. John; Foster, Stephen S.D. and Drasar, Bohumil S. (1982)

The risk of groundwater pollution by on-site sanitation in developing countries : a literature review. (IRCWD-report ; no 01/82). Duebendorf, Switzerland, International Reference Centre for Waste Disposal. 79 p.

139 refs.

Subject(s): GROUNDWATER POLLUTION, ON-SITE DISPOSAL, LATRINES

Period covered: 1932-1981

LITERATURE REVIEW

Language: English

Martin-Goubier, Maryse (1985)

L'alimentation en eau potable des populations rurales de l'Afrique de l'Ouest : essai de synthèse bibliographique. Lyon, France, Université de Lyon III, Maitrise de géographie. 79 (35) p.

485 refs.

Subject(s): WATER SUPPLY DEMAND, ACCESS TO WATER, RURAL AREAS AFRICA

Period covered: 1971-1984

LITERATURE REVIEW

Language: French

Mathew, Brian (1988)

A planner manager's guide to the socio-economic issues involved in rural water projects in the third world. Reading, United Kingdom, Reading University, Agricultural Extension and Rural Development Centre. 67 p.

51 refs.

Subject(s): SOCIO-ECONOMIC ASPECTS OF PLANNING AND MANAGEMENT OF RURAL WATER SUPPLY

Period covered: 1978-1988

LITERATURE REVIEW

Language: English

Mehra, Sudhir (1989)

Involving communities in development activities : a review of experiences in India. (Research report / Socio-Economic Units, Kerala ; no. 2). Trivandrum, India, Socio-Economic Units, Kerala, Kerala Water Authority. ii, 79 p.

30 refs.

Subject(s): COMMUNITY PARTICIPATION, INDIA

Period covered: 1981-1988

LITERATURE REVIEW

Language: English

Meyer, J. (1988)

Hazardous waste management. Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. vi, 76 p.

56 refs.

Subject(s): HAZARDOUS WASTES, RESOURCE RECOVERY, PRE-TREATMENT, THERMAL PROCESSING (INCINERATION/PYROLYSIS), DISPOSAL, CANADA, THAILAND

Period covered: 1973-1987

LITERATURE REVIEW

Language: English

National Water Supply and Drainage Board (1989-)

Bibliography on water supply and sanitation. Mount Lavinia, Sri Lanka, National Water Supply and Drainage Board, Water Supply and Sanitation Documentation Centre. Vol. 1 -

Ca. 500 refs. per volume.

Subject(s): WATER RESOURCES, WATER COLLECTION SYSTEMS, WATER QUALITY, WATER SUPPLY, SANITATION (SRI LANKA)

Period covered: 1949-

BIBLIOGRAPHIC LIST (Series)

Language: English

Other relevant points: To date three volumes have been compiled: Vol. 1 1989; Vol. 2 1990; and, Vol. 3 1991.

Nilsson, Ake (1988)

Groundwater dams for small-scale water supply. [Rev. ed.] London, United Kingdom, Intermediate Technology Publications. 69 p.

20 refs.

Subject(s): GROUNDWATER DAMS, INDIA, ETHIOPIA

Period covered: 1958-1984

LITERATURE REVIEW

Language: English

Nongluk Tunyavanich et al. (1988)

Thai water : an annotated bibliography of water and sanitation publications in Thailand. Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. 123 p.

272 refs.

Subject(s): WATER SUPPLY AND SANITATION, THAILAND

Period covered: 1961-1986

ANNOTATED BIBLIOGRAPHY

Subject and author indexes, plus a list of availability

Language: English

Nordberg, Erik and Winblad, Uno (1990)

Environmental hygiene in SIDA-supported programmes in Africa : review and recommendations. Stockholm, Sweden, Swedish International Development Authority. 69 p.

77 refs.

Subject(s): SAFE WATER SUPPLY, SANITATION, PROJECTS, TECHNOLOGY, HEALTH IMPACT ETHIOPIA, KENYA, TANZANIA, ZIMBABWE

Period covered: 1958-1989

LITERATURE REVIEW

Language: English

Polprasert, Chongrak and Sikka, B. (1986)

Aquatic weeds and their uses : an overview of perspectives for developing countries. (Environmental sanitation reviews ; no. 21). Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. 79 p.

116 refs.

Subject(s): AQUATIC WEEDS, USES, WASTEWATER TREATMENT

Period covered: 1935-1985

LITERATURE REVIEW

Language: English

Reij, Chris; Mulder, Paul and Begeman, Louis (1988)

Water harvesting for plant production. (World Bank technical paper ; no. 91) Washington, DC, USA, World Bank. x, 123 p.

355 refs.

Subject(s): RAINWATER HARVESTING, AGRICULTURE, ASIA, AFRICA, NORTH AMERICA, AUSTRALIA

Period covered: 1929-1987

LITERATURE REVIEW

Language: English

Rybczynski, Witold; Polprasert, Chongrak and McGarry, Michael (1978)

Low-cost technology options for sanitation : a state-of-the-art review and annotated bibliography. Ottawa, Ont., Canada, International Development Research Centre. 184 p.

534 refs.

Subject(s): SANITATION, APPROPRIATE TECHNOLOGY

Period covered: 1959-1976

ANNOTATED BIBLIOGRAPHY and LITERATURE REVIEW

Includes author and authors' corporate affiliation indexes

Language: English

Shuval, Hillel I. et al. (1986)

Wastewater irrigation in developing countries : health effects and technical solutions. (World Bank technical report ; no. 51). (UNDP Project Management Report ; no. 6). (Integrated Resource Recovery Series ; no. 6). Washington, DC, USA, World Bank. xxxi, 324 p.

234 refs.

Subject(s): WASTEWATER REUSE, IRRIGATION, UNITED KINGDOM, UNITED STATES, ISRAEL, INDIA, GERMANY, LATIN AMERICA, MIDDLE EAST, AUSTRALIA

Period covered: 1909-1983

LITERATURE REVIEW

Language: English

Strauss, Martin and Blumenthal, Ursula J. (1990)

Use of human wastes in agriculture and aquaculture : utilization practices and health perspectives. (IRCWD Report ; no. 08/90) Duebendorf, Switzerland, International Reference Centre for Waste Disposal. v, 327 p.

149 refs.

Subject(s): HUMAN WASTES, USE, AGRICULTURE, AQUACULTURE MEXICO, CHILE, INDIA, GUATEMALA, SOUTH KOREA, ARGENTINA, PERU, INDONESIA, SAUDI ARABIA

Period covered: 1971-1989

LITERATURE REVIEW

Language(s): English, Spanish, French

United Nations (1987)

Consolidated catalogue of publications on water resources in print from 1971 to 1985 = Brochure recapitulative des publications consacrées aux ressources en eau publiées entre 1971 et 1985 = Catalogo consilidado de publicaciones sobre los recursos hidricos en circulacion entre 1971 y 1985. New York, NY, USA, United Nations, Department of International Economic and Social Affairs. 113 p.

555 refs.

Subject(s): WATER RESOURCES PLANNING, POLICY, LEGISLATION AND OPERATION AND MANAGEMENT, WATER LEGISLATION AND ADMINISTRATION, HYDROLOGY AND RELATED FIELDS (ASSESSMENT OF WATER RESOURCES), DRINKING WATER SUPPLY AND SANITATION (WATER AND WASTES), LAND WATER AND SOIL CONSERVATION (IRRIGATION AND DRAINAGE, FORESTRY), FISHERIES AND AQUACULTURE, WATER QUALITY MANAGEMENT AND ENVIRONMENT, FLOOD CONTROL, DROUGHT LOSS MANAGEMENT/DESERTIFICATION CONTROL

Period covered: 1971-1985

BIBLIOGRAPHIC LIST

Language(s): English, Spanish, French

University of Natal (1989)

The WATSNU literature database. Pietermaritzburg, South Africa, University of Natal, Department of Economics. 37 p.

252 refs.

Subject(s): RURAL, PERI-URBAN AND URBAN DOMESTIC (POTABLE) WATER SUPPLY, SANITATION, KWAZULU

Period covered: 1967-1989

BIBLIOGRAPHIC LIST

Subject index

Language: English

Victoria Department of Water Resources and Australian Water Resources Council (1989)

Low cost sewerage options study. (Water Management Series ; no. 14) Canberra, Australia, Australian Government Publishing Service. x, 116 p.

79 refs.

Subject(s): SEWERAGE, APPROPRIATE TECHNOLOGY, AUSTRALIA, TASMANIA

Period covered: 1969-1988

LITERATURE REVIEW

Language: English

Vigneswaran, S.; Shanmuganantha, S. and Al Mamoon, Abdullah (1987)

Trends in water treatment technologies. (Environmental sanitation reviews ; no. 23/24). Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. 96 p.

62 refs.

Subject(s): WATER TREATMENT, TECHNOLOGY

Period covered: 1904-1985

LITERATURE REVIEW

Language: English

Vines, Marcus; Reed, Bob and Pickford, John (1989)

Reduced cost sewerage for developing countries. Loughborough, United Kingdom, Loughborough University of Technology, WEDC. 44 p.

84 refs.

Subject(s): SEWERAGE, APPROPRIATE TECHNOLOGY, AUSTRALIA, UNITED STATES, AFRICA, PAKISTAN, COLOMBIA, BRAZIL, INDONESIA, BOLIVIA

Period covered: 1961-1989

LITERATURE REVIEW

Language: English

Wegelin-Schuringa, Madeleen (1991)

On-site sanitation : building on local practice. (Occasional paper series ; no. 16)
The Hague, The Netherlands, IRC International Water and Sanitation Centre. iv, 74 p.
63 refs.

Subject(s): SANITATION, ON-SITE DISPOSAL, APPROPRIATE TECHNOLOGY, LATRINES

Period covered: 1958-1990

LITERATURE REVIEW

Language: English

White, Anne U. and Seviour, Chris (1974)

Rural water supply and sanitation in developing countries : a selected bibliography. Ottawa, Ont., Canada, International Development Research Centre. 81 p.
242 refs.

Subject(s): TECHNOLOGY, WATER SUPPLY, WELLS, RESERVOIRS AND CATCHMENT TANKS,
PUMPS, WATER DISTRIBUTION, WATER TREATMENT, SANITATION, HEALTH ASPECTS,
DISEASES, BIBLIOGRAPHIES

Period covered: 1948-1974

ANNOTATED BIBLIOGRAPHY

Author and subject indexes

Language: English

WHO (1991)

WHO programme for the promotion of environmental health : bibliography of selected publications and documents = Programme de l'OMS pour la promotion de l'hygiene du milieu : bibliographie de publications et documents selectionnés.
2nd. ed. Geneva, Switzerland, Division of Environmental Health, World Health Organization. 182 p.

1,179 refs.

Subject(s): COMMUNITY WATER SUPPLY AND SANITATION, ENVIRONMENTAL HEALTH IN RURAL AND URBAN DEVELOPMENT AND HOUSING, ENVIRONMENTAL MANAGEMENT FOR VECTOR CONTROL, FOOD SAFETY/FOOD STANDARDS, PREVENTION OF ENVIRONMENTAL POLLUTION, PROMOTION OF CHEMICAL SAFETY

Period covered: 1949-1991

BIBLIOGRAPHIC LIST

Subject and general indexes

Languages: English, French, Spanish

Wijk-Sijbesma, Christine van (1981)

Participation and education in community water supply and sanitation programmes : a literature review. 2nd rev. ed. (Technical paper series ; no. 12). The Hague, The Netherlands, International Reference Centre for Community Water Supply and Sanitation. 222 p.
236 refs.

Subject(s): COMMUNITY PARTICIPATION, PROGRAMMES, WATER SUPPLY, SANITATION

Period covered: 1955-1978

LITERATURE REVIEW

Language: English

Wijk-Sijbesma, Christine van (1985)

Participation of women in water supply and sanitation : roles and realities. (Technical paper series ; no. 22). The Hague, The Netherlands, International Reference Centre for Community Water Supply and Sanitation. xiii, 191 p.
775 refs.

Subject(s): WOMEN'S INVOLVEMENT, AFRICA, ASIA, CENTRAL AND LATIN AMERICA

Period covered: 1954-1984

LITERATURE REVIEW

Language: English

Wijk-Sijbesma, Christine van (1987)

What price water? : user participation in paying for community-based water supply : with particular emphasis on piped systems. (Occasional paper series ; no. 10). The Hague, The Netherlands, International Reference Centre for Community Water Supply and Sanitation. vi, 82 p.
24 refs.

Subject(s): FINANCING, WATER SUPPLY CHARGES, COST RECOVERY, COMMUNITY PARTICIPATION, WATER COMMITTEES

Period covered: 1976-1987

LITERATURE REVIEW

Subject index

Language: English

Other relevant points: Also published in French

Yang, P.Y. and Wang, M.L. (1990)

Biotechnology applications in wastewater treatment. (Environmental sanitation reviews ; no. 29). Bangkok, Thailand, Environmental Sanitation Information Center, Asian Institute of Technology. 84 p.

324 refs.

Subject(s): WASTEWATER TREATMENT, TECHNOLOGY

Period covered: 1972-1988

LITERATURE REVIEW

Language: English

An abstract is usually a non-critical indication of the subject contents of a document, aiming to permit the user a decision about the relevance of the document. An abstract journal is a journal containing 'abstracts' of currently published documents. In the context of document identification these kinds of journals represent a useful means of discovering what has been published recently on a particular subject. They are usually compiled so that enough bibliographic information is given on the document being described so as to make it not only easy to identify but also, if necessary, easy to obtain. The list immediately following this text relates to those abstract journals relevant to water supply and sanitation.

2.2 ABSTRACT JOURNALS AND CURRENT AWARENESS BULLETINS

Aqualine abstracts

Publisher: Pergamon Press, Oxford, United Kingdom

Compiler: Water Research Council (WRC)

Frequency: 26 times a year

References per issue: ca. 180

Subject(s): WATER RESOURCES AND SUPPLIES, WATER QUALITY, MONITORING AND ANALYSIS OF WATER AND WASTES, WATER TREATMENT, UNDERGROUND SERVICES AND WATER USE, SEWAGE, INDUSTRIAL EFFLUENTS, EFFECTS OF POLLUTION

Language: English

Costs: Annual subscription: US\$ 535; two year institutional rate: US\$ 1,016.50

Other relevant points: See also section 2.3, under AQUALINE

Environmental Sanitation Abstracts : low cost options

Publisher: Environmental Systems Information Center (ENSIC), Asian Institute of Technology, Bangkok, Thailand

Compiler: Environmental Systems Information Center (ENSIC)

Frequency: Thrice a year

References per issue: ca. 165

Subject(s): NON-CONVENTIONAL AND CONVENTIONAL METHODS OF COLLECTION, TREATMENT, REUSE AND DISPOSAL OF DOMESTIC WASTEWATER, HUMAN WASTES AND AGRO-INDUSTRIAL WASTES AND AQUACULTURE

Language: English

Costs: Annual subscription: US\$ 110

Other relevant points: See also section 2.3 (data bases) and section 3.2 (organizations) under ENSIC

Information eaux

Publisher: Office International de l'Eau (AFEE)

Compiler: Office International de l'Eau (AFEE), Limoges, France

Frequency: Eleven times a year

References per issue: ca. 280

Language: French

Subject(s): See section 2.3 (data bases) under AFEE

Costs: Annual subscription: 1,700 F.

Other relevant points: Does not include patents

Repindex

Publisher: CEPIS

Compiler: CEPIS, Lima, Peru

Frequency: Quarterly

References per issue: ca. 700

Language: Spanish

Subject(s): ENVIRONMENTAL ENGINEERING AND ENVIRONMENTAL SCIENCE

Costs: Annual subscription: US\$ 50.

Other relevant points: See also section 2.3 (data bases) under REPIDISCA, and section 3.2 (organizations) under CEPIS

Women, water and sanitation : annual abstract journal

Publisher: UNDP PROWWESS

Compiler: IRC International Water and Sanitation Centre

Frequency: Once a year

References per issue: ca. 70

Language: English

Subject(s): WOMEN, WATER SUPPLY, SANITATION, SOCIAL ASPECTS

Costs: US\$ 17.50 per issue

The abstract journals mentioned here cover a wider area than water supply and sanitation, but nonetheless can contain documents of interest to the sector.

Abstracts on rural development in the tropics

Publisher: Royal Tropical Institute (KIT), Amsterdam, The Netherlands

Compiler: Information and Documentation Department (KIT),

Frequency: Six times a year

References per issue: ca. 340

Language: English

Subjects: RURAL DEVELOPMENT, WOMEN, SOCIAL ASPECTS, HEALTH, ENVIRONMENT, AGRICULTURE, EDUCATION

Costs: Annual subscription: Dfl. 140. plus Dfl 60. for postage and handling

Other relevant points: See also section 2.3 (data bases), under KIT abstracts, and section 3.2 (organizations) under KIT

A.I.D. Research and Development Abstracts

Publisher: Agency for International Development, Washington, DC, USA

Compiler: Agency for International Development

Frequency: Quarterly

References per issue: 200

Period covered: 1969 -

Language: English

Subject(s): DEVELOPMENT COOPERATION

Costs: -

Other relevant points: -

Development information abstracts = bulletin analytique sur le développement =

Resúmenes de información sobre el desarrollo

Publisher: Department of Technical Co-operation for Development, United Nations, New York, USA

Compiler: Department of Technical Co-operation for Development

Frequency: Six times a year (sometimes double issues)

References per issue: ca. 90

Period covered: 1980 -

Language: English

Subject(s): REFERENCES TO *UNPUBLISHED* MATERIAL WRITTEN BY OR FOR THE UNITED NATIONS IN THE FIELD OF ECONOMIC AND SOCIAL DEVELOPMENT

Costs: -

Other relevant points: This publication does *not* contain references to published United Nations documents.

Gender studies in agriculture : a journal of abstracts

Publisher: Agricultural University, Wageningen, The Netherlands

Compiler: Department of Gender Studies in Agriculture

Frequency: Three times a year

References per issue: ca 245

Period covered: 1982 -

Language: English

Subject(s): WOMEN, AGRICULTURE, ENVIRONMENT AND ECOLOGY

Costs: Dfl. 15. per volume (excluding postage outside the Netherlands)

Resindex : bibliographie sur le Sahel

Publisher: Comité Permanent Inter-Etats de Lutte contre la Sécheresse dans le Sahel (CILSS), Institut du Sahel, Bamako, Mali

Compiler: Comité Permanent Inter-Etats de Lutte contre la Sécheresse dans le Sahel (CILSS), Institut du Sahel

Frequency: Once a year

References per issue: ca. 490

Period covered: 1977 -

Language: French

Subjects: DEVELOPMENT, SAHEL, HYDROLOGY AND RESOURCES AND WATER, HEALTH, NUTRITION, RURAL ECONOMICS

Costs: 100 F. per issue

Other relevant points: Entries consist of bibliographic descriptions and indexing by means of index terms instead of abstracts.

Search : key to current knowledge on basic services for children

Publisher: UNICEF

Compiler: UNICEF India Country Office, New Delhi

Frequency: Four times a year (sometimes a double issue)

References per issue: ca 70

Period covered: 1986 -

Language: English

Subject(s): CHILDREN, COMMUNICATION, DEVELOPMENT, URBAN SERVICES, WATER AND ENVIRONMENTAL SANITATION, WOMEN, COUNTRY STUDIES

Costs: -

Other relevant points: A bibliography using analytical keyterms.

Technical literature update on diarrhoea

Publisher: Information Center, PRITECH, Arlington, USA

Compiler: Information Center, PRITECH, Arlington, USA

Frequency: Seven times a year

References per issue: Ca. 5

Period covered: Each issue covers recent literature

Language: English

Subject(s): DIARRHOEA

Costs: -

Other relevant points: -

Tropical Diseases Bulletin

Publisher: Bureau of Hygiene and Tropical Diseases, London, United Kingdom

Compiler: Bureau of Hygiene and Tropical Diseases

Frequency: 12 times a year

References per issue: Ca. 230

Period covered: 1979 -

Language: English

Subject(s): TROPICAL DISEASES, MEDICINE

Costs: -

Other relevant points: -

A current awareness bulletin is a serial publication which endeavours to keep users up to date with the latest information, or published literature on their particular subject interest. In the field of Water Supply and Sanitation in developing countries, IRC produces one such bulletin, which is described below.

Highlights

Publisher: IRC International Water and Sanitation Centre, The Hague, The Netherlands

Compiler: IRC Documentation Unit

Frequency: 6 times a year

References per issue: Includes summaries of around 60 articles per issue

Period covered: Recent Journal Articles and Newsletter Items

Language: English

Subject(s): WATER SUPPLY, SANITATION, APPROPRIATE TECHNOLOGY

Costs: Annual subscription: Full rate: Dfl. 135/US\$ 79 (surface mail), Dfl. 189/US\$ 111 (airmail); Reduced rate (University departments/students, government departments and indigenous agencies from the least developed countries): Dfl. 95/US\$ 55 (surface mail), Dfl. 123/US\$ 78 (airmail)

Other relevant points: Contains a selection of news items and contents pages from 250 journals, newsletters and other sources related to the water supply, sanitation and environmental sector. The main sections include: sector policy, environment, water technology, sanitation, health and hygiene, communications and training, women, country projects, current contents, new publications, forthcoming events, and education and training. Subscription requests should be directed to: Chief Editor, Highlights, IRC P.O. Box 93190, 2509 AD The Hague, The Netherlands, fax: +33-70-38 140 34

This is a periodical bulletin consisting of copies of the contents lists of selected periodicals assembled into some form to cover certain subject interests. It is also a quick way of keeping up-to-date on what journals have recently published on that subject area.

Tabcont

Publisher: Centro Panamericano de Ingenieria Sanitaria y Ciencias del Ambiente (CEPIS), Lima, Peru

Compiler: Centro Panamericano de Ingenieria Sanitaria y Ciencias del Ambiente (CEPIS)

Frequency: 6 times a year

References per issue: Contains ca. 50 contents pages of relevant journals

Period covered: contents pages of recent journals

Language(s): Spanish, English

Subject(s): WATER SUPPLY, SANITATION, HEALTH

Costs: US\$ 20 per year

A number of data bases exist which may contain information relevant to water supply and sanitation in developing countries. They are described in the next part of this document.

Apart from distinguishing the various types of data bases (bibliographic (without abstracts), bibliographic with abstracts, (numerical) data banks, data bases on project information/country information, address lists, research inventories, and full text data bases containing selected documents), an attempt has been made to indicate the accessibility of the data bases described (i.e on-line usually via a commercial host, on CD-ROM usually purchased from a distributor, in print usually in the form of an abstract journal, or only available in-house at the organization compiling the data base). Any combination of these possibilities may apply.

The addresses of the main commercial hosts and CD-ROM distributors are given here. Those interested in finding out how to gain access to particular commercially available data bases are advised to inquire to the hosts or distributors directly for advice on the specifications of the computer equipment required and on the expected costs. The addresses of all the host organizations and CD-ROM distributors mentioned in this part of the guide are listed below:

2.3 DATA BASES

BIREME

Centro Latinoamericano y del Caribe de
Informacion en Ciencias de la Salud,
Rua Botucatu, 862 - CEP 04023-062
Sao Paulo, Brazil,
Tel: +55-11-549-2611
Fax: +55-11-571 1919
Telex: 1122143 OPAS BR
E-MAIL: bireme@FAPESP.BITNET

Cambridge Scientific Abstracts (CSA)

7200 Winconsin Avenue
#601, Bethesda,
MD 20814, USA
Tel: +1-301-961-6750
Fax: +1-301-961--6720

COMPACT CAMBRIDGE

7200 Winconsin Avenue,
Bethesda, Maryland,
20814-4823 USA
Tel: +1-301-961-6700
Fax: +1-301-961-6720

DIALOG Information Services

3460 Hillview Avenue
P.O. Box 10010
Palo Alto, CA 94303-0993 USA
Tel: +1-800-344-2564 or +1-415-858-3785
Fax: +1-414-858-7069

DIALOG has around 30 offices worldwide.

DIMDI

Weissshausstrasse 27
 Postfach 420580
 5000 Cologne 41
 Federal Republic of Germany
 Tel: +49-221-47241
 Telex 8881364 DIM D
 Fax: +49-221-411-429

ESA-IRS

ESRIN
 Via Galileo Galilei
 1-00044 Frascati
 Italy
 Tel: +39-6-941801
 Fax: +39-6-94180361
 Telex: 610637

ESA-IRS also has national centres in Austria, Belgium, Denmark, Finland, Ireland, the Netherlands, Norway, Spain, Sweden and the United Kingdom.

ORBIT Search Service

Maxwell Online
 8000 Westpark Drive
 McLean, VA 22102, USA
 Tel: +1-703-442-0900
 Fax: +1-703-893-4632

or

ORBIT Search Service

Maxwell Online
 Achilles House
 Western Avenue
 London, W3 OAU, United Kingdom
 Tel: +44-81-992-3456
 Fax: +44-81-993-7335
 Telex 8814614

SILVERPLATTER INFORMATION, Inc.

One Newton Executive Park
 Newton Lower Falls
 MA 02162-1449, USA
 Tel: +1-617-969-2332
 Fax: +1-617-969-5554

Explanatory note on entries

An asterisk (*) by the cost estimate in the entries in this section represent the costs of a 20 minute search, using ten search terms, which results in 20 full bibliographic references with abstracts.

The inclusion of in-house data bases has been made so that people using this guide might consider writing to the compiler of certain data bases to request a specific subject search. IRC, for example, can undertake specific subject searches for a small fee, depending upon the complexity of the search, in its own in-house data base IRCDOC. An enquirer, will usually receive a printed list of references held in the IRC Library which covers the subject requested. Where there are no copyright restrictions applicable, photocopies can also be ordered. In other cases, it may well be possible to request some of the documents found, directly from the organizations which produced them.

In the context of the above, it should be clear that searches need to be carefully formulated and terms like **WATER SUPPLY** and **SANITATION** are much too broad. It is through a combination of terms, using some of the tools mentioned in Part 1, that the best results will be obtained from some of the data bases mentioned here. It does not matter whether the search is undertaken online via a commercial host organization, by means of a search request sent directly to the compiler of an in-house data base, or on a data base stored on a CD-ROM. The basic concept of searching remains unchanged.

Name of data base: AFEE

Type of data base: Bibliographic with abstracts

Compiled by: The International Water Office

Language: French

Subject(s): FRESH WATER RESEARCH AND TECHNOLOGY; SURFACE AND GROUNDWATER, SEA, SHORE AND COASTAL AREAS; WATER QUALITY, POLLUTION AND TREATMENT, DISTRIBUTION AND USES; HEALTH, HYGIENE AND SAFETY; PHYSICAL, CHEMICAL AND MICROBIOLOGICAL ANALYSES; WATER POLICY, PLANNING AND ECONOMY; RESEARCH AND DEVELOPMENT; LEGISLATION

Period covered: 1970 -

Number of records: 88,000 (as of October 1991)

Annual increase in records: ca. 5,000

Accessibility:

- a. **Online**
Host ESA/IRS
Update frequency ca. 420 refs. monthly
Price US\$ 31.43 *

b. *In print*

See **Information Eaux** section 2.2 (Abstract Journals)

Other relevant points: The data base contains 80% journal articles and 20% books and grey literature (1/3, 2/3). The language coverage is as follows: 63% English, 27% French, 8% German, and 2% Italian, Spanish and Portuguese. In terms of subjects the break down is as follows: groundwater 10%, surface water 10%, pollution 10%, industry 10%, wastewater treatment, sludge and waste 7%, sea 5%, water quality 5%, agriculture 5%, water distribution 5%, water analysis 5%, land management 2%, sanitation 2%, water storage 2%, regulation, normalization 2%, health 2%, bacteriological analysis 2%, energy 2% and diverse 2%. Does not include patents.

Name of data base: AQUALINE

Type of data base: Bibliographic with abstracts

Compiled by: Water Research Centre

Language: English

Subject(s): ALL COMMERCIAL, TECHNICAL AND SCIENTIFIC ASPECTS OF THE WATER AND WASTEWATER INDUSTRIES INCLUDING: LEGISLATION, MANAGEMENT, WATER RESOURCES AND SUPPLIES, WATER QUALITY, MONITORING AND ANALYSIS OF WATER AND WASTES, WATER TREATMENT, WATER DISTRIBUTION SYSTEMS, SEWERAGE, WATER RE-USE, SEWAGE AND SLUDGE TREATMENT AND DISPOSAL, INDUSTRIAL EFFLUENT AND DISPOSAL, AND EFFECTS OF WATER POLLUTION

Period covered: 1960 -

Number of records: 138,000 (as of May 1991)

Annual increase in records: ca. 8,000

Accessibility:

a. *Online*

Host ORBIT Search Service

Update frequency ca. 300 refs. fortnightly

Price US\$ 52.93 *

b. *CD-ROM*

Distributor Compact Cambridge

Update frequency Quarterly

Price US\$ 1,494 (regular subscription)

c. *In print*

See **Aqualine abstracts** section 2.2 (Abstract Journals)

Name of data base: AHRTAG

Type of data base: Bibliographic (without abstracts)

Compiled by: Appropriate Health Resources & Technologies Action Group (AHRTAG)

Language: English

Subject(s): DIARRHOEAL DISEASES, HEALTH EDUCATION, HEALTH PLANNING AND MANAGEMENT, URBAN HEALTH, PRIMARY HEALTH CARE, NUTRITION

Period covered: 1989 -

Number of records: 6,595 (as of March 1993)

Annual increase in records: ca. 1,500

Other relevant points: AHRTAG's Resource Centre contains a comprehensive collection of about 17,000 resource materials, including books, periodicals, and newsletters (national, regional and local) as well as unpublished reports on primary health care in developing countries. It provides an information service which is free of charge to health workers in developing countries. AHRTAG, in addition, maintains other data bases with information on newsletters and journals, people and organizations, and on audiovisual materials.

Name of data base: ASFA: Aquatic Sciences and Fisheries Abstracts

Type of data base: Bibliographic with abstracts

Compiled by: The United Nations Office for Ocean Affairs and the Law of the Sea; the Food and Agriculture Organization of the United Nations; the Intergovernmental Oceanographic Commission and the United Nations Environment Programme

Language: English

Subject(s): ACOUSTICS AND OPTICS OF AQUATIC ENVIRONMENTS; AQUATIC COMMUNITIES; BIOLOGICAL AND ECOLOGICAL ASPECTS OF MARINE, FRESHWATER, AND BRACKISH WATER ENVIRONMENTS; FISHERIES AND AQUACULTURE; LEGAL, ECONOMIC AND SOCIOLOGICAL STUDIES; LIMNOLOGY; MARINE AND AQUATIC GEOLOGY AND GEOPHYSICS; MARINE BIOTECHNOLOGY; MARINE METEOROLOGY AND CLIMATOLOGY; MARINE TECHNOLOGY AND ENGINEERING; NON-LIVING RESOURCES; OCEANOGRAPHY; POLLUTION OF AQUATIC ENVIRONMENTS; RELATED OFFSHORE OPERATIONS AND SERVICES; AND REMOTE GEOSENSING

Period covered: Varies by online service

Number of records: 340,000 (as of January 1992)

Annual increase in records: Ca. 36,000

Accessibility:

- a. **Online**
Host DIALOG
Update frequency ca. 3,000 records a month
Price US\$ 56 *
Host DIMDI
Price -
Host ESA-IRS
Price -
- b. **CD-ROM**
Distributor Compact Cambridge
Update frequency Quarterly
Price US\$ 5,690

c. ***In-print***
Aquatic Sciences and Fisheries Abstracts

Other relevant points: The printed version comes in three parts: Part 1: Biological Sciences and Living Resources Aquatic Sciences and Fisheries Abstracts; Part 2: Ocean Technology, Policy and Non-Living Resources Aquatic Sciences and Fisheries Abstracts; and, Part 3: Aquatic Pollution and Environmental Quality ASFA Aquaculture Abstracts

Name of data base: BIBLIOL

Type of data base: Bibliographic

Compiled by: IDRC

Language(s): -

Subject(s): THE COLLECTION OF THE IDRC LIBRARY

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

a. ***In-house***

Other relevant points: -

Name of data base: CAB ABSTRACTS

Type of data base: Bibliographic with abstracts

Compiled by: CAB International

Language: English

Subject(s): Subject areas of interest include: AGRICULTURAL MANAGEMENT, HEALTH-HYGIENE, WASTE DISPOSAL

Period covered: 1972 -

Number of records: ca. 2,558,000 (as of June 1991)

Annual increase in records: ca. 120,000

Accessibility:

a. ***Online***

Host ESA-IRS

Update frequency ca. 10,000 refs. monthly

Price US\$ 34.88 *

Host DIALOG

Update frequency -

Price US\$ 36.00 *

Host DIMDI

Update frequency -

Price -

- b. **CD-ROM**
Distributor SilverPlatter Information
Update frequency Annual
Price -

Other relevant points: Possible relevant water related journals covered include **Irrigation and Drainage Abstracts**

Name of data base: CEHA data base

Type of data base: Bibliographic

Compiled by: WHO/EMRO Regional Centre for Environmental Health Activities (CEHA) for CEHANET

Language(s): English, Arabic

Subject(s): WATER SUPPLY, SANITATION, POLLUTION, WATER RESOURCES, LEGISLATION, FOOD HYGIENE, WASTE MANAGEMENT, AFGHANISTAN, BAHRAIN, CYPRUS, DJIBOUTI, EGYPT, IRAN, IRAQ, JORDAN, KUWAIT, LEBANON, LIBYA, MOROCCO, OMAN, PAKISTAN, QATAR, SAUDI ARABIA, SOMALIA, SUDAN, SYRIA, TUNISIA, UNITED ARAB EMIRATES, YEMEN

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **In-house**

Other relevant points: -

Name of data base: CEHANET Environmental Health Regional Bibliography

Type of data base: Bibliographic

Compiled by: WHO/EMRO Regional Centre for Environmental Health Activities (CEHA) for CEHANET

Language(s): English, French, Arabic

Subject(s): WATER SUPPLY, SANITATION, POLLUTION, WATER RESOURCES, LEGISLATION, FOOD HYGIENE, WASTE MANAGEMENT, AFGHANISTAN, BAHRAIN, CYPRUS, DJIBOUTI, EGYPT, IRAN, IRAQ, JORDAN, KUWAIT, LEBANON, LIBYA, MOROCCO, OMAN, PAKISTAN, QATAR, SAUDI ARABIA, SOMALIA, SUDAN, SYRIA, TUNISIA, UNITED ARAB EMIRATES, YEMEN

Period covered: 1988 -

Number of records: 5,480

Annual increase in records: 500

Accessibility:

- a **In-house**

Other relevant points: Represents bibliographic citations supplied by the CEHANET National Focal Agencies and Collaborating Centres in The Eastern Mediterranean Region

Name of data base: DAI (Development Activity Information)
Type of data base: project information from 200 donor organizations
Compiled by: IDRC
Language: English
Subject(s): DEVELOPMENT AID, PROJECTS
Period covered: -
Number of records: -
Annual increase in records: -
Accessibility
 a. **CD-ROM**
Distributor IDRC

Name of data base: (Diviner Project) water and sanitation integrated data base
Type of data base: Bibliographic/project information/address list
Compiled by: Approtech Asia's Information System on Water and Sanitation (Diviner Project)
Language: English
Subject(s): WATER SUPPLY AND SANITATION, ASIA
Period covered: -
Number of records: see below
Annual increase in records: -
Accessibility:
 a. *In-house*
 b. *In print*

As Water and Sanitation Integrated Database (1989). - 311 p.

Other relevant points: This is a compilation of the systems three databases namely: Bibliography on Water and Sanitation, Directory of Projects on Water and Sanitation, and Register of Experts/Practitioners on Water and Sanitation. Part I is a listing of available information/materials on water and sanitation appropriate to NGOs. It contains 298 entries collected from various sources. Part II is a listing of 124 completed and on-going projects on water and sanitation mostly conducted for/by Asian NGOs. Part III contains a listing of 47 Asian experts/practitioners in the field of water and sanitation.

Name of data base: DOCAD
Type of data base: Bibliographic
Compiled by: National Environmental Engineering Research Institute (NEERI)
Language: English
Subject(s): WATER, SANITATION, WATER TREATMENT
Period covered: 1989
Number of records: 1,500

Annual increase in records: 300

Accessibility:

a. *In-house* at NEERI

Other relevant points: This data base covers mainly books pertaining to Environmental Science and Engineering

Name of data base: EHEBIS

Type of data base: Bibliographic

Compiled by: Service of Information and Documentation of the Division of Environmental Health (EHE/SID) of the WHO in Geneva

Language: English

Subject(s): THE COLLECTION OF THE EHE/SID ON THE FOLLOWING TOPICS:
ENVIRONMENTAL HEALTH, WATER SUPPLY, SANITATION, POLLUTION, RURAL AND URBAN DEVELOPMENT, FOOD SAFETY

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility: -

In-house

Name of data base: ENSIC

Type of data base: Bibliographic with Abstracts

Compiled by: Environmental Systems Information Center (ENSIC)

Language: English

Subject(s): NON-CONVENTIONAL AND CONVENTIONAL METHODS OF COLLECTION, TREATMENT, REUSE AND DISPOSAL OF DOMESTIC WASTEWATER, HUMAN WASTES AND AGRO-INDUSTRIAL WASTES AND AQUACULTURE

Period covered: 1979 -

Number of records: ca. 11,000 (as of December 1992)

Update frequency: ca. 200 items every 4 months

Accessibility:

a. *In-house*

b. *In print*

See **Environmental Sanitation Abstracts : the low cost** options in section 2.2, (Abstract Journals)

Other relevant points: Print version available to fee paying members of ENSICNET in the form of the above mentioned abstract journal.

Name of data base: ENVIROLINE
Type of data base: Bibliographic
Compiled by: R.R. Bowker Electronic Publishing
Language: English
Subject(s): WATER POLLUTION, ENVIRONMENT, LAND USE AND MISUSE, WASTE, RENEWABLE RESOURCES
Period covered: 1971 -
Number of records: 148,000 refs. (as of March 1991)
Annual increase in records: ca. 9,000
Accessibility:
 a. *Online*
 Host ESA/IRS
 Update frequency ca. 760 refs. monthly
 Price US\$ 36.03 *

Name of data base: Environmental Health Journals Regional Union List (EHJOURNALS)
Type of data base: Bibliographic
Compiled by: WHO/EMRO Regional Centre for Environmental Health Activities (CEHA) for CEHANET
Language: English
Subject(s): WATER SUPPLY, SANITATION, POLLUTION, WATER RESOURCES, LEGISLATION, FOOD HYGIENE, WASTE MANAGEMENT, EGYPT, JORDAN MOROCCO, OMAN, PAKISTAN, SUDAN, SYRIA, TUNISIA
Period covered: 1989 -
Number of records: 400
Annual increase in records: -
Accessibility:
 a. *In-house*
Other relevant points: Consists of a bibliographical description of journals together with an indication of where they are available within each of the eight CEHANET National Focal Agencies.

Name of data base: GEOBASE
Type of data base: Bibliographic with abstracts
Compiled by: Elsevier Science Publishers/Geo Abstracts
Language: English
Subject(s): NATURAL RESOURCES, REMOTE SENSING, HYDROLOGY
Period covered: 1980 -
Number of records: 400,000 (as of June 1991)
Annual increase in records: ca 44,000
Accessibility:

- a. **Online**
Host ESA/IRS
Update frequency ca 3,700 refs. monthly
Price US\$ 34.88 *
Host DIALOG
Price US\$ 36 *

Other relevant points: Corresponds in part to the print publications: **Geographical Abstracts, Physical and Human Geography, Geological Abstracts, Ecological Abstracts, International Development Abstracts and Mineralogical Abstracts.**

Name of data base: GEMS/WATER (Global Environment Monitoring System)

Type of data base: Data bank

Compiled by: Coordinator, GEMS/WATER, National Water Research Institute (NWRI)

Language: English

Subject(s): GLOBAL WATER QUALITY MONITORING

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **In-house** at UNEP, WHO, NWRI

Other relevant points: GEMS/WATER also has contacts with the Norwegian Institute for Water Research (NIVA), the International Lake Environment Committee (ILEC), the World Meteorological Organization (WMO) via GRDC in Koblenz, the Environmental Monitoring Systems Laboratory at Cincinnati (EMSL-CI), and UNESCO.

Name of data base: Global Runoff Data Centre (GRDC)

Type of data base: Numerical data bank

Compiled by: Federal Institute of Hydrology, Koblenz

Language: English

Subject(s): SURFACE WATER RUNOFF, RIVER FLOW, CATCHMENT AREAS

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **In-house**

Other relevant points: The data bank receives daily flows for 1,664 stations from 91 countries and of the monthly flows for 1,444 stations from 114 countries.

Name of data base: Ground Water On-line
Type of data base: Bibliographic with abstracts (since 1987)
Compiled by: The National Ground Water Information Center
Language: English
Subject(s): GROUNDWATER AND HYDROGEOLOGY
Period covered: -
Number of records: 63,000
Annual increase in records: -
Accessibility:
 a. *In-house*

Name of data base: GWDCOLL
Type of data base: Bibliographic
Compiled by: WASH
Language: English
Subject(s): GUINEA WORM DISEASE (DRACUNCULIASIS)
Period covered: -
Number of records: 400 (as of 1993)
Annual increase in records: -
Accessible:
 a. *In-house*

Name of data base: IDRIS (International Development Research Information System)
Type of data base: Project information from several international organizations
Compiled by: IDRC, BOSTID, FINNIDA, GATE, IFS, JICA, SAREC, UNU
Language: English
Period covered: -
Number of records: -
Annual increase in records: -
Accessible:
 a. *In-house* (at IDRC)
 b. *Online*
 Host AGRALIN
 c. *CD-ROM*
 Included on DAI-disk

Name of data base: INFOTERRA

Type of data base: Data bank

Compiled by: INFOTERRA Programme Activity Centre

Language: English

Subject(s): SOURCES OF ENVIRONMENTAL INFORMATION (Consists of over 6,500 sources of information located in government ministries and documentation centres, research institutes, universities, non-governmental and international organizations).

Period covered: 1977 -

Number of records: See above

Annual increase in records: -

Accessibility:

- a. ***In-house*** at United Nations office in Geneva
- b. ***Electronically*** on magnetic tape or diskette for mainframe and PC-based microcomputers
- c. ***In print*** as the **International Directory of Sources**

Other relevant points: Data bank relies on contributions from 137 National Focal Points (NFPs), 9 Regional Service Centres (RSCs) and the Programme Activity Centre (PAC).

Name of data base: Información para Desarrollo

Type of data base: Alphanumeric, bibliographic

Compiled by: Economic Commission for Latin America and the Caribbean (ECLAC)

Language: Spanish

Subject(s): ECONOMIC AND SOCIAL CONDITIONS, ECONOMIC AND SOCIAL PLANNING; POPULATION AND DEVELOPMENT

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. ***CD-ROM***
Distributor BIREME

Other relevant points: Represent the results of a joint initiative with LILACS

Name of data base: IRCDOC

Type of data base: Bibliographic with abstracts (7%)

Compiled by: IRC International Water Supply and Sanitation Centre, Documentation Unit

Language: English

Subject(s): WATER SUPPLY AND SANITATION IN DEVELOPING COUNTRIES, COMMUNITY PARTICIPATION/COMMUNITY MANAGEMENT, PUMPS, APPROPRIATE TECHNOLOGY,

ENVIRONMENT (MAINLY IN RELATION TO WATER POLLUTION), COUNTRY PROJECT REPORTS, LATRINES, HEALTH EDUCATION/HEALTH IMPACT, WATER SOURCES, WATER TREATMENT, SOCIAL ASPECTS (INCLUDING WOMEN), ECONOMIC ASPECTS (INCLUDING FINANCING AND COST RECOVERY), SUSTAINABLE DEVELOPMENT, ON-SITE AND OFF-SITE DISPOSAL OF WASTE

Period covered: 1980 -

Number of records: 8,800 (as of June 1993)

Annual increase in records: ca. 1,000

Accessibility:

a. *In-house*

Other relevant points: Most of the documents in the data base, around 5,454 documents were published in or after 1985. A card system includes many references before that year, however, the data base does include around 3,370 key documents published before that year.

Name of data base: KIT Abstracts TROPAG & RURAL

Type of data base: Bibliographical with abstracts

Compiled by: Royal Tropical Institute (KIT), Amsterdam

Language: English

Subject(s): Subject areas of interest include: WOMEN, HEALTH ASPECTS, ENVIRONMENT, NATURAL RESOURCES

Period covered: ATA, 1975 -; RURAL 1985 -

Number of records: TROPAG has more than 75,000, RURAL ca. 13,800

Annual increase in records: TROPAG ca. 4,000; RURAL ca. 2,000

Accessibility:

a. *Online* (TROPAG)

Host ORBIT search service

Update frequency ca. 1,000 refs. quarterly

Price US\$ 34.33 *

b.

CD-ROM

Distributor SilverPlatter Information

Update frequency Twice a year

Price Dfl. 1,463.--

c.

In print

as **Abstracts on Tropical Agriculture**; and as **Abstracts on Rural Development in the Tropics** (see section 2.2 Abstract Journals)

Name of data base: LILACS (Latin American and Caribbean Health Sciences Literature)

Type of data base: Bibliographic with abstracts (in Spanish)

Compiled by: Latin American Health Information Network, c/o BIREME (The Regional Library of Medicine, Sao Paulo, Brazil)

Language(s): English, Spanish

Subject(s): HEALTH RELATED LITERATURE PUBLISHED IN THE LATIN AMERICAN AND CARIBBEAN REGION

Period covered: 1981 -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **LILACS CD-ROM**
Distributor BIREME
Update frequency three times a year
Price US\$ 141

Other relevant points: The CD-ROM also includes the following data bases: WHOLIS, PAHO, REPIDISCA. Searching on the new, 13th, edition (April 1992) of the LILACS CD-ROM on health in Latin America has been made much easier with the introduction of a new user-friendly interface. There are three search menu forms which can be used and terms can now be selected directly from the indexes.

Name of data base: PAHO (Pan American Health Organization Library Information System)

Type of data base: Bibliographic with abstracts

Compiled by: Pan American Health Organization

Language: English

Subject(s): PAHO HEADQUARTERS LIBRARY HOLDINGS

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **LILACS CD-ROM**
Distributor BIREME
Update frequency three times a year
Price US\$ 141

Other relevant points: The CD-ROM also includes the following data bases: WHOLIS, LILACS, REPIDISCA

Name of data base: PASCAL

Type of data base: Bibliographic

Compiled by: INIST (Institut de l'Information Scientifique et Technique), CNRS (Centre National de la Recherche Scientifique)

Languages: French, English

Subject(s): Subject area of interest includes: EARTH SCIENCES

Period covered: 1973 -

Number of records: 8,000,000 (as of September 1991)

Annual increase in records: ca. 480,000

Accessibility:

- a. **Online**
Host ESA-IRS
Update frequency ca. 40,000 refs. monthly
Price US\$ 33.73 *
Host DIALOG
Update frequency -
Price -

- b. **In print** as **Bibliographie Internationale**

Other relevant points: Subfiles 205 (online) includes a file on Hydrology

Name of data base: PERART

Type of data base: Bibliographic

Compiled by: National Environmental Engineering Research Institute (NEERI)

Language: English

Subject(s): WATER SUPPLY, SANITATION, ENVIRONMENT

Period covered: 1989 -

Number of records: 2,500 +

Annual increase in records: 500

Accessibility:

- a. **In-house** at NEERI

Other relevant points: Mainly covers Indian contributions to Environmental Science and Engineering journals, seminars and conferences.

Name of data base: PERICOLL

Type of data base: Bibliographic

Compiled by: WASH

Language: English

Subject(s): PERI-URBAN OR URBAN-FRINGE ISSUES

Period covered: -

Number of records: ca. 500 (as of 1993)

Annual increase in records: -

Accessibility:

a. ***In-house***

Name of data base: PERINET

Type of data base: Computerized address list

Compiled by: WASH

Language: English

Subject(s): INFORMATION ON THE CURRENT AND PROPOSED PERI-URBAN PROJECTS OF 400 ORGANIZATIONS

Period covered: -

Number of records: ca. 400 (as of late 1991)

Annual increase in records: -

Accessibility:

a. ***In-house***

Name of data base: POLLUTION ABSTRACTS

Type of data base: Bibliographic with abstracts

Compiled by: Cambridge Scientific Abstracts

Language: English

Subject(s): Subjects of interest include: WATER POLLUTION, WASTE MANAGEMENT, SEWERAGE AND WASTEWATER TREATMENT

Period covered: 1970 -

Number of records: 170,000 (as of September 1991)

Annual increase in records: ca. 9,000

Accessibility:

a. ***Online***

Host ESA/IRS

Update frequency ca. 1,500 refs. every 2 months

Price US\$ 40.63 *

b. ***In print*** as the journal **Pollution Abstracts**

Name of data base: RAINCOLL

Type of data base: Bibliographic

Compiled by: Rainwater Harvesting Information Center (RHIC)

Language: English

Subject(s): RAINWATER HARVESTING (INCLUDING PROJECT REPORTS, APPLIED RESEARCH STUDIES, AND TRAINING MANUALS)

Period covered: -
Number of records: 500 (as of 1993)
Annual increase in records: -
Accessibility: -
 a. *In-house*

Name of data base: RAINNET
Type of data base: Computerized address list
Compiled by: WASH
Language: English
Subject(s): CONTAINS INFORMATION ON 620 ORGANIZATION INTERESTED IN RAINWATER HARVESTING (MEMBERS OF THE RAINWATER HARVESTING INFORMATION CENTER (RHIC) NETWORK) PLUS INFORMATION ON WHICH COUNTRIES THE ORGANIZATIONS HAVE WORKED IN AND THE TYPE OF PROJECTS IN WHICH THEY HAVE BEEN INVOLVED
Period covered: -
Number of records: -
Annual increase in records: -
Accessibility:
 a. *In-house*
Other relevant points: -

Name of data base: RAINRES
Type of data base: Research Inventory
Compiled by: WASH for GARNET
Language: English
Subject(s): APPLIED RESEARCH IN RAINWATER HARVESTING
Period covered: -
Number of records: -
Annual increase in records: -
Accessibility:
 a. *In-house*

Name of data base: REPIDISCA (Red Panamericana de Información y Documentación en Ingeniería Sanitaria Ciencias del Ambiente) [Sanitary Engineering and Environmental Sciences Literature]
Type of data base: Bibliographic with abstracts (in Spanish)
Compiled by: CEPIS
Language(s): Spanish, English

Subject(s): SANITARY ENGINEERING AND ENVIRONMENTAL SCIENCES LITERATURE

Period covered: -

Number of records: 30,000 (as of 1988)

Annual increase in records: ca. 5,000

Accessibility:

- a. **LILACS CD-ROM**
Distributor BIREME
Update frequency three times a year
Price US\$ 141

Other relevant points: The CD-ROM also includes the following data bases: WHOLIS, LICACS, PAHO

Name of data base: RESORS

Type of data base: Bibliographic

Compiled by: Horler Information Inc.

c/o Canada Centre for Remote Sensing (Government of Canada)

Language(s): English, French

Subject(s): Subject areas of interest include: REMOTE SENSING, WATER RESOURCES

Period covered: 1950 -

Number of records: 80,000 (as of September 1991)

Annual increase in records: ca. 3,600

Accessibility:

- a. **Online**
Host ESA-IRS
Update frequency ca. 450 refs. monthly
Price US\$ 32.58 *

Name of data base: SAINEA (Système Africain d'Information sur l'Eau et de l'Assainissement)

Type of data base: Bibliographic

Compiled by: Comité Interafricain d'Etudes Hydrauliques (CIEH)

Language: French

Subject(s): WATER SUPPLY, SANITATION, AFRICA

Number of records: ca. 8,000 (mid 1992)

Annual increase in records: -

Accessibility: -

- a. **In-house**

Name of data base: Selected Water Resources Abstracts (SWRA)

Type of data base: Bibliographic with abstracts

Compiled by: Water Resources Scientific Information Center (WRSIC), U.S. Geological Survey, U.S. Department of the Interior

Language: English

Subject(s): WATER AND WATER RESOURCES, WATER PROPERTIES, WATER SUPPLY, WATER QUALITY, WATER LAW, COMPUTER APPLICATIONS, WATER ENGINEERING, HYDRAULICS, WATER CONSERVATION

Period covered: 1967 -

Number of records: ca. 240,000 refs (as of February 1992)

Annual increase in records: ca. 12,000

Accessibility:

- a. **Online**
Host ESA-IRS
Update frequency ca. 1,000 refs. monthly
Price US\$ 34.65 *
- b. **CD-ROM**
Distributor Compact Cambridge
Update frequency Quarterly
Price US\$ 1,295 (regular subscription)
- c. **In print**
As **Selected Water Resources Abstracts**

Other relevant points: See section 2.2 (Abstract Journals)

Name of data base: WASAMS (Water and Sanitation Monitoring System)

Type of data base: Country (statistical) data

Compiled by: WHO/UNICEF Joint Monitoring Programme

Language: English

Subject(s): WATER SUPPLY AND SANITATION SECTOR MONITORING, PLANNING AND MONITORING AT COUNTRY LEVEL

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **In-house**
For authorised WASAMS users at WHO, Community Water Supply and Sanitation Unit; UNICEF, Water and Sanitation Section

Other relevant points: The system has been developed as an open ended "add-on" to the earlier CESI+ Country Statistics Monitoring System (CESTAT)

Name of data base: WASHCOLL

Type of data base: Bibliographic

Compiled by: Water and Sanitation for Health Project (WASH)

Language: English

Subject(s): WATER SUPPLY, SANITATION, DEVELOPING COUNTRIES

Period covered: -

Number of records: ca. 8,000 (as of 1993)

Annual increase in records: -

Accessible:

- a. **Online**
Host National Water Wells Association (NWWA)
Update frequency
Price
- b. **In-house**
At WASH

Other relevant points: Represents the basic library of the WASH Information Center

Name of data base: WASTEINFO

Type of data base: Bibliographic with abstracts

Compiled by: Waste Management Information Bureau, Harwell Laboratory

Language: English

Subject(s): MUNICIPAL REFUSE, POLLUTION, LANDFILL ISSUES, COMPOSTING, RECLAMATION, SEWAGE, INCINERATION, AND TOXIC AND INDUSTRIAL WASTES

Period covered: 1973 -

Number of records: 56,000 (as of January 1990)

Annual increase in records: -

Accessibility:

- a. **Online**
Host ORBIT search service
Update frequency Monthly
Price US\$ 44.67 *
- b. **CD-ROM**
Distributor Compact Cambridge
Update frequency Quarterly
Price US\$ 1,295

Name of data base: WATERLIT

Type of data base: Bibliographic

Compiled by: South African Water Information Centre (SAWIC)

Language: English

Subject(s): THE SCIENCE, TECHNOLOGY, AND BIOLOGICAL ASPECTS OF WATER, WASTEWATER, AND SANITATION (HYDROLOGY, POTABLE WATER, WASTE MANAGEMENT, AQUACULTURE, POLLUTION)

Period covered: 1975 -

Number of records: 203,300 refs. (as of December 1992)

Annual increase in records: ca. 13,000

Accessibility:

- a. **CD-ROM**
Distributor: Compact Cambridge
Update frequency: Quarterly
Price: US\$995
- b. **In-house**
 At SAWIC - (South African Water Information Centre)
- c. **Online**
 Through CSIR WorldNet as from March 1993

Name of data base: WATERNET

Type of data base: Bibliographic with abstract

Compiled by: American Water Works Association (AWWA)

Language: English

Subject(s): DRINKING WATER INDUSTRY, WATER TREATMENT, WATER QUALITY, WATER ANALYSIS, WATER UTILITY MANAGEMENT, WATER RATES, WATER CONSERVATION, WATER USE, WATER LAW, WATERBORNE DISEASES, WATER POLLUTION, WATERSHED MANAGEMENT, WASTEWATER TREATMENT, WASTEWATER REUSE, DISTRIBUTION SYSTEMS, DESALINATION

Period covered: 1971 -

Number of records: 17,843 (as of May 1988)

Annual increase in records: ca. 3,000

Accessibility:

- a. **Online**
Host DIALOG
Update frequency Bimonthly
Price US\$ 42 *

Other relevant points: Information from AWWA publications including conference proceedings, technical reports and studies from water utilities, regulatory agencies, and research groups, and other selected water industry publications. Deals mainly with North America, with some coverage of Europe, Australia, and South Africa.

Name of data base: Water Resources Abstracts

Type of data base: Bibliographic with abstracts

Compiled by: US Department of the Interior

Language: English

Subject(s): GROUNDWATER AND SURFACE-WATER HYDROLOGY AND WATER RESOURCES ECONOMICS

Period covered: 1968 -

Number of records: 130,000 (as of December 1981)

Annual increase in records: ca. 12,000

Accessibility:

a. **Online**

Host DIALOG

Update frequency Monthly

Price US\$ 43 *

b.

CD-ROM

Distributor The National Information Services Corporation (NISC)

Update frequency Quarterly

Price -

Other relevant points: The CD-ROM corresponds to Selected Water Resources Abstracts and the Water Resources Abstracts online data base. See also Selected Water Resources Abstracts (SWRA).

Name of data base: WATSNU (Water and Sanitation - Natal University)

Type of data base: Bibliographic

Compiled by: Department of Economics, University of Natal, Pietermaritzburg

Language: English

Subject(s): RURAL, PERI-URBAN AND URBAN DOMESTIC (POTABLE) WATER SUPPLIES AND CERTAIN ASPECTS OF SANITATION IN KWAZULU

Period covered: 1979 -

Number of records: ca. 250

Accessibility:

a. **In-house**

At the Department of Economics, University of Natal, Pietermaritzburg

Other relevant points: Represents a "one-off" data base

Name of data base: WHOLIS (World Health Organization Library Information System)

Type of data base: Bibliographic

Compiled by: World Health Organization

Language: English

Subject(s): BIBLIOGRAPHIC DATA BASE OF WHO HEADQUARTERS AND REGIONAL OFFICE

PUBLICATIONS, PERIODICAL ARTICLES, TECHNICAL AND POLICY DOCUMENTS, AND JOINT PUBLICATIONS OF WHO WITH OTHER PUBLISHERS AND INTERNATIONAL ORGANIZATIONS

Period covered: -

Number of records: -

Annual increase in records: -

Accessibility:

- a. **LILACS CD-ROM**
Distributor BIREME
Update frequency Three times a year
Price US\$ 141

Other relevant points: The CD-ROM also includes the following data bases: REPIDISCA, LICACS, PAHO

Name of data base: Women, Water & Sanitation

Type of data base: Full text of selected documents

Compiled by: NISC

Language: English

Subject(s): WOMEN, AGRICULTURE, HEALTH PRACTICES, EDUCATION AND TRAINING OF HEALTH WORKERS, COMMUNITY BASED DEVELOPMENT PROJECTS

Period covered: 1979-1989

Number of records: 55

Accessibility:

- a. **CD-ROM**
Distributor Mircroinfo Ltd/CD Resources
Update frequency One-off purchase
Price £ 215/US\$ 320

Other relevant points: Sources include USAID, CARE, UNDP/PROWESS, UNICEF, WHO, and World Bank.

PART THREE: ORGANIZATIONS

At a time when modern communication technology allows greater and more rapid contact between various organizations scattered throughout the world, it is important to have an idea which organization to contact and how they can be reached. This part of the guide attempts to record the organizations that may be most useful to maintain contacts with for information on water supply and sanitation for developing countries.

Section 3.1 refers to publications, directories, which are of course valuable tools for finding out new organizations in specific fields, especially NGOs, or for obtaining the address, telephone number, fax number, and name of a person to contact, in a given organization. A directory is a list persons or organizations systematically or alphabetically arranged to give some information about the single units, usually at least the addresses. As with bibliographies, directories are quickly out-of-date. For this reason only those directories of relevance to water supply and sanitation for developing countries which date from 1987 have been included in the listing.

3.1 DIRECTORIES

ACCIS (1988)

ACCIS guide to United Nations information sources on the environment. New York, NY, USA, United Nations. x, 141 p.

Subject(s): INFORMATION SOURCES, ENVIRONMENT

Type of organizations: INTERNATIONAL ORGANIZATIONS

Number of addresses: ca. 70

Geographical coverage: worldwide

Alphabetical index

Frequency: One-off publication in the series ACCIS guides to United Nations information sources

ACCIS (1992)

ACCIS guide to United Nations information sources on health. New York, NY, USA, United Nations. vii, 227 p.

Subject(s): INFORMATION SOURCES, HEALTH

Type of organizations: UNITED NATIONS ORGANIZATIONS

Number of addresses: -

Geographical coverage: worldwide

Includes index

Frequency: One-off publication in the series ACCIS guides to United Nations information sources

AMCEN's Water Resources Network. Regional Coordination Unit (1992)
Directory of water resources institutions in Africa. Cairo, Egypt, Water Research Center. 46 p.

Subject(s): WATER RESOURCES

Type of organizations: PUBLIC SECTOR

Number of addresses: -

Geographical coverage: Africa

Frequency: -

CEHA (1991)

Regional directory of environmental health professionals and institutions.

Amman, Jordan, Centre for Environmental Health Activities. ix, 313 p.

Subject(s): ENVIRONMENTAL HEALTH

Type of organizations: GOVERNMENT, WATER AUTHORITIES, TEACHING AND RESEARCH INSTITUTIONS

Number of addresses: ca. 550

Geographical coverage: Afghanistan, Bahrain, Cyprus, Djibouti, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Pakistan, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, United Arab Emirates, and Yemen.

Name index

Frequency: This is the first edition

Other relevant points: Includes a listing of country professionals and environmental health institutions in the countries mentioned above. There is also a short annex of Environmental Health Institutions in these countries.

Environment Liaison Centre International (1992)

ELCI members directory 1992. Nairobi, Kenya, Environmental Liaison Centre International. 47 p.

Subject: ENVIRONMENT

Type of organizations: NON-GOVERNMENTAL ORGANIZATIONS

Number of addresses: 726

Geographical coverage: Africa, Asia and Pacific, Europe, Latin America and Caribbean, North America

Frequency: This is the first edition

Environmental Services Group, Worldwide Fund for Nature, India (1989)

Environmental NGOs In India : a directory. 519 p.

Subject(s): INFORMATION SOURCES, ENVIRONMENT

Type of organizations: NON GOVERNMENTAL ORGANIZATIONS

Number of addresses: 850 +

Geographical coverage: INDIA

Frequency: This is the first edition

Indian Institute of Ecology & Environment (1992)

Indian directory of environment. New Delhi, India, Indian Institute of Ecology & Environment, 234 p.

Subject(s): ENVIRONMENT

Type of organizations: PUBLIC SECTOR, PRIVATE SECTOR

Number of addresses: 7000 +

Geographical coverage: INDIA

Frequency: This is the first edition

IWSA (1992)

IWSA yearbook 1992 = Annuaire de l'AIDE 1992. London, United Kingdom, International Water Supply Association. 284 p.

Subject: WATER SUPPLY

Type of organizations: WATER AUTHORITIES, DONORS, INTERNATIONAL ORGANIZATIONS, MANUFACTURERS, CONSULTANTS

Number of addresses: ca. 3,000

Geographical coverage: Worldwide

Alphabetical list of members

Frequency: Annual

Other relevant points: Includes a directory of members, national committees, regional water supply organizations, water supply organizations.

Louis Berger International and Water and Power Consultancy Services (1991)

International short courses, workshops and conferences on irrigation management and related topics. New Delhi, India, Winrock International. 122 p.

Subjects: TRAINING INSTITUTIONS, IRRIGATION, RURAL DEVELOPMENT, WORLDWIDE

Type organizations: TRAINING INSTITUTES

Number of addresses: ca. 450

Geographical coverage: Worldwide

Chronological listing of 1991 scheduled programmes, 1992 scheduled programmes, and also a listing of unscheduled programmes available on request

Frequency: Issued annually

NGO Forum for Drinking Water Supply and Sanitation (1990)

NGO directory on drinking water supply and sanitation - 1990. Dhaka, Bangladesh, NGO Forum for Drinking Water Supply and Sanitation. 197 p.

Subject(s): WATER SUPPLY, SANITATION

Type of organizations: NON-GOVERNMENTAL ORGANIZATIONS

Number of addresses: ca. 175

Geographical coverage: Bangladesh

Listing of NGOs by region

Frequency: One-off publication

Other relevant points: Each entry also includes a description of the staffing, technologies, achievements, and donors funding each NGO listed.

ODI (1990)

Irrigation Management Network : register of members. London, United Kingdom, Overseas Development Institute, Agricultural Administration Unit. 216 p.

Subject(s): IRRIGATION, RURAL DEVELOPMENT

Type of organizations: IRRIGATION NETWORK MEMBERS

Number of addresses: ca. 1,500

Geographical coverage: Worldwide

Name index

Frequency: last published March 1990

Other relevant points: Members are listed alphabetically on a country basis.

PAHO (1991)

Directorio de programas de formacion en ingenieria sanitaria y ambiental en America Latina y el Caribe. 2nd. ed. Washington, DC, USA, Pan American Health Organization, Environmental Health Programme. viii, 372 p.

Subject(s): TRAINING COURSES, PUBLIC HEALTH, ENVIRONMENTAL ENGINEERING, SANITARY ENGINEERING, ORGANIZATIONS, ARGENTINA, BRAZIL, COLOMBIA, CHILE, ECUADOR, GUATEMALA, MEXICO, PANAMA, PERU, VENEZUELA

Type of organizations: EDUCATIONAL INSTITUTES

Geographical coverage: Latin America, Caribbean

Number of addresses: ca. 50

Country/institution index

Frequency: first published in 1987

Pickford, John (1991)

Developing world water. London, United Kingdom, Grosvenor Press. 523 p.

Subject(s): WASTEWATER TREATMENT, IRRIGATION, WATER RESOURCES, WATER DISTRIBUTION, SEWERAGE, WATER TREATMENT, GROUNDWATER

Type of organizations: MANUFACTURERS, CONSULTING FIRMS

Number of addresses: ca. 1,050

Geographical coverage: Worldwide

Advertisers index

Frequency: This was the final edition of this publication

Trzyna, Thaddeus C. (ed.) (1989)

World directory of environmental organizations : a handbook of national and international organizations and programs - governmental and non-governmental - concerned with protecting the earth's resources. 3rd. ed. Claremont, CA, USA, California Institute of Public Affairs. 176 p.

Subject(s): ENVIRONMENTAL PROTECTION, ORGANIZATIONS

Type of organizations: NATIONAL AND INTERNATIONAL ORGANIZATIONS, GOVERNMENT AND NON-GOVERNMENT ORGANIZATIONS

Number of addresses: ca. 570

Geographical coverage: Antarctica, Africa, Australia and Oceania, Latin America and the Caribbean, North America, East Asia, West Asia, Europe

Organization and major programs index

Frequency: First edition issued in 1973

UNICEF and Water Resources Commission (1991)

NGO watsan directory Ethiopia - 1991. Addis Ababa, Ethiopia, UNICEF. 180 p.

Subject(s): WATER SUPPLY, SANITATION, PROJECTS

Type of organizations: NON-GOVERNMENTAL ORGANIZATIONS

Number of addresses: 38

Geographical coverage: Ethiopia

Alphabetical listing

Frequency: One-off publication

Union of International Associations (ed.) (1992)

Yearbook of international organizations 1992/93. 29th ed. Munich [etc.], Saur. 3 vols.

Subject(s): INTERNATIONAL ORGANIZATIONS

Number of addresses: 32,000 organizations

Geographical coverage: worldwide

Includes alphabetical index (in vol. 3)

Frequency: Annual

Other relevant points: vol 1: organization descriptions and cross references ; vol 2: international organization participation : country directory of secretariats and membership ; vol. 3: global action networks : classified directory by subject and region.

United Nations Non-Governmental Liaison Service (1992)

United Nations development education directory. 7th ed. Geneva, Switzerland, United Nations. 138 p.

Subject(s): EDUCATION, INFORMATION SOURCES

Type of organizations: NON-GOVERNMENTAL ORGANIZATIONS

Number of addresses: 232

Geographical coverage: worldwide

Frequency: 8th edition is planned for spring 1994

WHO. Regional Office for Europe (1989)

Water and sanitation services in Europe. Copenhagen, Denmark, World Health Organization Regional Office for Europe. 400 p.

Subject(s): WATER SUPPLY, SANITATION

Type of organizations: GOVERNMENT, WATER INDUSTRY, RESEARCH ORGANIZATIONS

Number of addresses: ca. 150

Geographical coverage: Europe (including Eastern Europe)

No index

Frequency: One-off publication

The world of learning (1991).

London, United Kingdom, Europa Publications. 41st ed. xv, 1,987 p.

Subject(s): HIGHER EDUCATION, UNIVERSITIES, RESEARCH, LIBRARIES

Type of organizations: HIGHER EDUCATION ORGANIZATIONS

Number of addresses: 26,000

Geographical coverage: worldwide

Index of institutions

Frequency: annual

World Water and WHO (1987)

The International Drinking Water Supply and Sanitation Decade directory : catalogue of external support and consultants directory. 3rd ed. London, Thomas Telford. 2 vols. (213, 150 p.)

Subject(s): WATER SUPPLY, SANITATION, EXTERNAL SUPPORT

Type of organizations: FUNDING AGENCIES, RESEARCH ORGANIZATIONS, NON-GOVERNMENTAL ORGANIZATIONS, CONSULTING FIRMS, UNITED NATIONS ORGANIZATIONS

Number of addresses: 103 external support agencies plus 240 consulting firms

Geographical coverage: worldwide

Alphabetical Index

Frequency: Last published in 1987

Other relevant points: Volume 1 of this publication (country guide) contains short summaries on 156 countries providing basic statistics on countries, the addresses of water and sanitation agencies, and a country description focusing on the water supply and sanitation coverage. Volume 2 concerns the external support agencies (mainly in the developed world).

In the water supply and sanitation sector it is possible to identify a number of key organizations which produce information on low-cost water supply and sanitation for developing countries. The following list is an attempt to give an overview of the most important organizations. Each organization marked with two asterisks ** produces its own list of publications. It should be noted that although some of the organizations provide documents free of charge, the majority of organizations ask payment for the documents they produce.

3.2 (INTERNATIONAL) ORGANIZATIONS

**** AHRTAG - Appropriate Health Resources and Technologies Action Group**

1 London Bridge Street,
London SE1 9SG, United Kingdom
Tel: +44-71-378-1403
Fax: +44-71-403-6003
E-mail: GEO2 AHRTAG

Network membership: SATIS (north coordinator)

Serial publications: Dialogue on diarrhoea : the international newsletter on the control of diarrhoeal diseases.

AIHPH - All India Institute of Hygiene and Public Health

110 Chittaranjan Avenue
Calcutta 700 073 India
Tel: +91-33-315286, 5288, 5200

Network membership: GARNET topical network coordinator for Impact Assessment (Health); ITN

AIT - Asian Institute of Technology. Environmental Engineering Division.

P.O. Box 2754,
Bangkok 10501, Thailand.
Tel: +66-2-516-0110-29
Fax: +66-2-516-2126
Telex: 84276TH

**** AMREF - African Medical and Research Foundation.**

Wilson Airport, P.O. Box 30125,

Nairobi, Kenya.

Tel: +254-2-501301

Fax: +254-2-506112

Network membership: NETWAS, GARNET regional network coordinator, and ITN

Serial publications: Water and sanitation news : a newsletter of NETWAS

(appearing three times a year with the aim of acting as an instrument of NETWAS for disseminating water and sanitation sector information).

Approtech Asia

PSDC Building, Real corner Magallanes Streets

Intramuros, Manila, 1002 Philippines

Tel: +632-479918/497041 to 52 loc.14

Fax: +632-8189720

Telex: 40404 TX Box 1324

Network membership: Coordination of the DIVINER project

Serial publications: Diviner news (the newsletter on Approtech Asia Information System on Water and Sanitation).

**** ATOL - Aangepaste Technologie voor Ontwikkelings Landen**

Blijde Inkomststraat 9,

B 3000 Leuven, Belgium

Tel: +32-16-224517

**** AWWA - American Water Works Association**

6666 West Quincy Avenue,

Denver, CO 80235

USA

Tel: +1-330-794-7711

Fax: +1-330-794-7310

Serial publications: Journal American Water Works Association

Blair Research Laboratory

Ministry of Health
 Box 8105
 Causeway,
 Harare, Zimbabwe
 Tel: +263-4-792747
 Fax: +263-4-792480

Brace Research Institute

MacDonald Campus
 P.O. Box 900
 Ste-Anne-de-Bellevue
 Quebec H9X 1C0
 Tel: +1-514-398-7833
 Fax: +1-514-398-7767

Network membership: GARNET topical network coordinator for Solar Distillation, and Solar Water Disinfection

CEHA - World Health Organization. Centre for Environmental Health Activities.

P.O. Box 926967,
 Amman, Jordan.
 Tel: +962-6-684655 or +962-6-684657
 Fax: +962-6-667533
 Telex: 23447 WHOEM JO

Network membership: CEHANET coordinator

Serial publications: CEHA newsletter, Environmental health bibliography

The organization also produces a number of information tools aimed at helping network members expand and develop their information management capacities.

CEMAT - Center for Mesoamerican Studies on Appropriate Technology

P.O. Box 1160
 Guatemala 01901, Guatemala
 Tel: +502-2-22153/53847

Network membership: GARNET topical network coordinator for Latrines, Composting

Serial publications: RED

**** CEPIS - Centro Panamericano de Ingenieria Sanitaria y Ciencias del Ambiente.**

Casilla Postal 4337,
Lima 100, Peru.
Tel: +51-14-371077
Fax: +51-14-378289
E-mail cepis@cepis.pe
Telex: 21052 pe cepis.

Network membership: Coordinating organization for REPIDISCA. GARNET topical coordinator for Eutrophication, Toxic Substances, Waste Management and Water Loss

Serial publications: **Repindex (Abstract journal in Spanish which appears about 3-4 times a year); Noticias** (a quarterly newsletter on Environmental engineering and research in Latin America); **Hojas de divulgacion tecnica;** and **Tabcont** (a current contents bulletin on environmental engineering in Spanish and English).

**** CIEH - Comité inter-africain d'études hydrauliques.**

P.O. Box 369,
Ouagadougou, Burkina Faso
Tel: +226-307112/307115
Fax: +226-362441
Telex: CIEH 5277 BF

Serial publications: **Bulletin de liaison du comité interafricain d'études hydrauliques** is a quarterly bulletin produced by CIEH with technical information on current research and other CIEH activities. **Index eau - Afrique** is a bibliographic series covering various countries in Francophone West Africa (see section 2.1).

The documents produced by CIEH are in French and are about water programmes/projects in Francophone West Africa, some documents deal with technical issues.

CREPA - Centre Regional pour l'Eau Potable et l'Assainissement a faible coût

P.O. Box 7112
Ouagadougou 03, Burkina Faso
Tel: +226-310359/310360
Fax: +226-310361

Network membership: GARNET topical network coordinator for Rainwater Harvesting (Rainwater Quality), Wastewater Treatment (Lagoons), and Water Treatment (Iron Removal).

Serial publications: **Info CREPA**

CSIR - Council for Scientific and Industrial Research

Division of Water Technology

P.O. Box 395

Pretoria 0001, South Africa

Tel: +27-12-841-3897

Fax: +27-12-841-4785

Network membership: GARNET topical network coordinator for Appropriate Technology**Serial publications:** Appropriate technology newsletter**ECLAC - Economic Commission for Latin America and the Caribbean**

Casilla 179-D

Santiago, Chile

Tel: +562-208-5051

Fax: +562-208-1946

Telex: 340259

ENSIC - Environmental Systems Information Centre

AIT - Asian Institute of Technology

P.O. Box 2754,

Bangkok, Thailand.

Tel: (66-2)-5245863

Telex: 824276 TH

Fax: (66-2) 5245870

Network membership: ENSICNET coordinator**Publications:** ENSIC regularly publishes documents under the series title **Environmental Sanitation Reviews** covering various aspects of sanitation and waste disposal in developing countries**Serial publications:** ENFO (quarterly newsletter), **Environmental Index** (three times a year)

ESCAP - Economic and Social Commission for Asia and the Pacific. National Resources Division, Water Resources Section

United Nations Building, Rajadamnern Avenue,
Bangkok 2, Thailand

Tel: +66-2-282-9161 or +66-2-282-9200

Telex: 82392 or 82315 ESCAP

Serial publications: **Confluence** (a newsletter, published twice a year, which acts as a medium for disseminating information to agencies and Governments participating in ESCAP information exchange activities in the field of water resources development); **Water resources journal** is a quarterly review journal of the Natural Resources Division of ESCAP, which aims to provide useful information on water resources for national agencies and development programmes in Asian and Pacific countries.

**** GATE - German Appropriate Technology Exchange,**

Dag-Hammarskjöld-Weg 1

D-6236 Eschborn 1,

GERMANY

Tel: +49-6196/79-0

Fax: +49-6196-79-1115

Telex: 41523 (gtz d)

Network membership: SATIS

Serial publications: Gate

**** GRET - Groupe de recherche et d'échanges technologiques**

213 rue La Fayette

75010 Paris, France

Tel: +33-1-40351314

Fax: +33-1-40350839

Telex: 212890 F

Network membership: SATIS

Serial publications: Chroniques

**** Hesperian Foundation.**

P.O. Box 1692, Palo Alto,
California 94302, USA.

Serial publications: Newsletter from the Sierra Madre

**** IAWQ - International Association on Water Quality**

1 Queen Anne's Gate,
London SW1H 9BT, United Kingdom
Tel: +44-71-222-3848/2836
Telex: 918518 WATAID G Attn: IAWQ
Fax: +44-71-233-1197

Serial publications: Water research, Water science and technology, Water quality international

ICDDR,B - International Centre for Diarrhoeal Disease Research, Bangladesh

P.O. Box 128
Dhaka 1000, Bangladesh
Tel: +880-2-600171 through 600178
Fax: +880-2-883116

Network membership: GARNET regional network coordinator

Serial Publications: Glimpse (bi-monthly newsletter); Journal of diarrhoeal diseases research (issued quarterly)

**** IDRC - International Development Research Centre**

Communications Division,
P.O. Box 8500,
Ottawa K1G 3H9, CANADA
Tel: +1-613-996-2321, 236-6163,
Fax: +1-613-238-7230

Serial publications: IDRC reports, IDRC acquires

IHE - International Institute for Infrastructural, Hydraulic and Environmental Engineering

P.O. Box 3015
2601 Delft, The Netherlands
Tel: +31-15-151715
Fax: +31-15-122921

Network membership: GARNET topical network coordinator for Institutional Development, Wastewater Treatment (Anaerobic), and Water Treatment (Suspended Solids Removal)

**** IIED - International Institute for Environment and Development**

3 Endsleigh Street,
London WC1H ODD, United Kingdom,
Tel: +44-71-388-2117
Fax: +44-71-388-2826

Serial publications: Environment and urbanization (Journal issued in April and October of each year)

**** INSTRAW - United Nations International Research and Training Institute for the Advancement of Women.**

Apartado Postal 21747, Cesar Nicolas Penson 102A,
Santo Domingo, Dominican Republic.
Tel: +1-809-685-2111
Telex: (326)-4280

Serial publications: Instraw news

**** Intermediate Technology Publications**

103-105 Southampton Row,
London WC1B 4HH, United Kingdom
Tel: +44-71-436-9761
Fax: +44-71-436-2013

**** IRC International Water and Sanitation Centre**

P.O Box 93190
2509 AD The Hague
The Netherlands
Tel: +31-70-33-141-33
Fax: +31-70-38-140-34
Telex 33296 irc nl
Cable: Worldwater, The Hague

Data base: IRCDOC (in-house data base on water supply and sanitation for developing countries)

Network membership: SATIS

Serial publications IRC newsletter, Highlights (current awareness bulletin) **Woman, water, sanitation** (annual abstract journal)

IRCWD - International Reference Centre for Wastes Disposal

Ueberlandstrasse 133
 CH 8600, Dubendorf, Switzerland
 Tel: +41-1-832-5018/17
 Fax: +41-1-823 5028
 Telex: 828687 EAWA CH

Network membership: GARNET topical network coordinator for Groundwater Pollution, Latrines (emptying of pit latrines), and Wastewater Reuse

ISW - International Secretariat for Water

Le Cours le Royer
 48, Rue Le Royer Ouest
 Montreal, Quebec,
 H2Y 1W7, Canada
 Tel: +1-514-849-4262
 Fax: +1-514-849-2822
 Telex: 055-62171 (local 1772)

ISWA - International Solid Wastes & Public Cleansing Association

Bremerholm 1,
 DK-1069 Copenhagen K,
 Denmark
 Tel: +45-33-914491
 Fax: +45-33-919188

Serial publications: Waste management and research (published six times a year)

IWEC - International Water Engineering Centre

University of Ottawa
 Civil Engineering Department
 Ottawa, Ontario K1N 6N5 Canada
 Tel: +1-613-564-3432
 Fax: +1-613-564-7681
 Telex: 0533338
 E-mail: Bitnet: RLDPE @UOTTAWA

Network membership: GARNET topical network coordinator for Solar Water Pumping

IWRA - International Water Resources Association

University of Illinois
205 North Mathews Avenue
Urbana, IL 61801, USA
Tel: +1-217-333-0536
Fax: +1-217-333-8046
Telex: 510101 1969 UI TELCOM URUD

Serial publications: Water international

IWSA - International Water Supply Association

1 Queen Anne's Gate
London SW1H 9BT, United Kingdom
Tel: +44-71-222-8111
Fax: +44-71-222-7243

Serial publications: Aqua, Water Supply, ISWA yearbook

IWWA - Indian Water Works Association

Pipeline Road, Vakola, Santacruz (East),
Bombay-400 055, India
tel: +91-22-6140926
fax: +91-22-6490691

Serial publications: Journal of Indian Water Works Association

**** KIT - Koninklijk Instituut voor de Tropen**

[Royal Tropical Institute]
Mauritskade 63,
1092 AD Amsterdam,
The Netherlands
Tel: +31-20-5688-272
Fax: +31-20-5688-444

Serial publications: Abstracts on rural development in the tropics (also available on CD ROM)

London School of Hygiene & Tropical Medicine

University of London,
Keppel Street,
London, WC1E 7HT, United Kingdom
Tel: +44-71-636-8636
Fax: +44-71-436-5389

Network membership: GARNET topical network coordinator housing the Dracunculiasis Operations Research Network, as well as being a GARNET topical coordinator for hygiene behaviour

Serial Publications: **Abstract on hygiene and communicable diseases, Public health news, Tropical diseases bulletin.** The Dracunculiasis Operations Network (DORN) publishes its own newsletter called **Countdown**

Mahidol University

Faculty of Social Sciences and Humanities
25/25 Puthamoltol, 4 Salaya,
73170 Nakon Pathom, Thailand
Tel: +66-441-9324

Network membership: GARNET topical network coordinators for Social Science Research on Water and Sanitation

NEERI - National Environmental Engineering Research Institute

Nehru Marg, Nagpur-440 020, India
tel: +91-712-526071
fax: +91-712-523893
telex 0712-233 NERI IN

Serial publications: **Indian Journal of Environmental Health**

NGO FORUM**For Drinking Water Supply & Sanitation**

Block E, Lalmatia, Dhaka-1207
Bangladesh
tel: +880-2-811749
fax: +880-2-813095 (Atten: NGO Forum)
telex 842940 ADAB BJ

Serial publications: **Paniprobaho** (monthly newsletter in Bengali); **WATSAN** (quarterly newsletter in English)

Office International de l'Eau

(International Office for Water)

Direction de la Documentation et des Données

Rue Edouard Chamberland

87065 Limoges, Cedex

Tel: +33-55-114-780

Fax: +33-55-777-115

Telex: 590 357 FONDEAU F

This represents a bringing together of what was previously known as the Association Française pour l'Etude des Eaux (AFEE), the Centre de Formation Internationale pour la Gestion de Ressources en Eau (CEFIGRE) and the Institut de l'Eau (Fondation de l'Eau).

Data base: AFEE

Serial publications: Information eaux, International Office for Water News

(published in English and French)

**** OXFAM (Technical Unit)**

274 Banbury Road,

Oxford OX2 7DZ

United Kingdom

Tel: +44-865-311311

Fax: +44-865-312600

Telex: 83610 OXFAM G

Serial publications: Development in practice (appears three times a year in February, June, October)

**** PACT - Private Agencies Collaborating Together**

Pact Media Services,

777 United Nations Plaza,

New York, NY 10017, USA

Tel: +1-212-697-6222

Fax: +1-212-692-9748

**** PATH - Programme for Appropriate Technology in Health**

Canal Place, 130 Nickerson Street,

Seattle, Washington 98109, USA

Tel: +1-206-285-4599

Telex: 474 0019

Cable: PATH

Peace Corps

Information Collection and Exchange,
1990 K St., NW
Washington, DC, 20526, USA

Robens Institute of Health and Safety

University of Surrey
Guildford, Surrey GU2 5XH, United Kingdom
Tel: +44-(0)483-509203/572823,
Fax: +44-(0)483-503517,
Telex: 859331 UNIVSYG

Ross Institute of Tropical Hygiene

Information and Advisory Service
London School of Hygiene and Tropical Medicine,
Keppel Street (Gower Street)
London WC1E 7HT, UNITED KINGDOM
Tel: +44-71-636-8636
Fax: +44-71-436-5389

**** SATIS - Global Union for Technologies for Environment and Sustainable Development**

P.O. Box 2664,
Dakar, Senegal
Tel: +221-217595
Fax: +221-222695

Serial publications: Satis news (appears both in English and French)

SAWIC - South African Water Information Centre

CSIR
P.O. Box 395,
Pretoria 0001 South Africa
tel: +27-12-841-2048
fax: +27-12-86-2869

**** SKAT - Swiss Center for Appropriate Technology**

Vadianstrasse 42,
CH-9000 St. Gallen,
Switzerland
Tel: +41-71-302585
Fax: +41-71-224656

Network membership: SATIS

Serial publications: SKAT doppelunkt

**** TALC - Teaching-aids At Low Cost**

P.O. Box 49, St Albans,
Herts, AL1 4AX, United Kingdom
Tel: +44-727-53869
Fax: +44-727-46852

TECHWARE

c/o CIBE-BIWM
Wolstraat 70, rue aux Laines
B-1000 Brussels, Belgium
Tel: +32-2-5188893
Fax: +32-2-50267365

Network membership: GARNET topical network coordinator for Wastewater and Water Treatment (Separation Processes)

**** TOOL - Transfer of Technology for Development**

Sarphatistraat 650,
1018 AV Amsterdam,
The Netherlands
Tel: +31-20-6264409
Fax: +31-20-6277489

Network membership: SATIS

UNCHS (HABITAT) - United Nations Centre for Human Settlements

P.O. Box 30030
Nairobi, Kenya
Tel: +254-2-333930
Fax: +254-2-226473/226479

Network membership: GARNET topical network coordinators for Housing and Health, Solid Waste Recycling

Serial publications: UNCHS habitat news, UNCHS (Habitat) shelter bulletin

**** UNDP - United Nations Development Programme.**

Division of Information, 1 United Nations Plaza,
New York, New York 10017, USA
Tel: +1-212-963-1234
Fax: +1-212-906-6350

Serial publications: Source

UNDP/World Bank Water and Sanitation Program

1818 H St. NW
Washington, DC, 20433, USA
Tel: +1-202-473-1304
Fax: +1-202-477-0164

Network membership: GARNET topical network coordinator for participatory monitoring and evaluation

**** UNEP - United Nations Environment Programme.**

The Distribution Assistant, Information and Public Affairs,
P.O. Box 30552,
Nairobi, Kenya
Tel: +254-2-333-930
Telex: 22068 or 22173

Serial publications: Industry and environment, Our planet

UNHCR - United Nations High Commissioner for Refugees

Case Postal 2500,
CH-1211 Geneva 2 Dépôt,
Switzerland
Tel: +41-22-739-8111
Fax: +41-22-731-9546

**** UNICEF - United Nations Children's Fund.**

H-9F, United Nations Plaza, New York,
NY 10017, USA
Tel: +1-212-326-7000
Fax: +1-212-888-7465

Serial publications: Waterfront

Publications can also be obtained from:

Publications can also be obtained from:

UNICEF

Distribution Unit
c/o Palais des Nations
1211 Geneva 10
Switzerland
Tel: +41-22-798-5850
Fax: +41-22-791-0822

**** United Nations Publications**

Sales Section,
2 United Nations Plaza,
Room DC2-853, Dept. 403
New York, New York 10017, USA
Tel: +1-212-963-8302
Fax: +1-212-963-3489

(For orders from North America, Latin America, Asia and the Pacific)

United Nations Publications

Sales Office and Bookshop
CH-1211 Geneva 10,
Switzerland
Tel: +41-22-740-0921
Fax: +41-22-740-0931

(For orders from Europe, Africa, and the Middle East)

University of Malaya

IDRC/UM Handpump Project
Mechanical Engineering Department
Pentai Valley
59100 Kuala Lumpur, Malaysia
tel: +60-3-758308, Ex.260
fax: +60-3-753661

Network membership: GARNET topical network coordinator for hand pumps,
Unimade (IDRC Handpump Network)

Serial publications: Waternet news (quarterly network newsletter)

University of Warwick

Department of Engineering
Coventry CV4 7AL, United Kingdom
Tel: +44-203-8200
Fax: +44-203-418922

Network membership GARNET topical network coordinator for Pumping, Technology, Non-Mechanized

**** VHAI - Voluntary Health Association of India**

Tong Swasthya Bhavan, 40 Institutional Area,
Near Qutab Hotel, New Dehli-110016, India
Tel: +91-11-668071
Fax: +91-11-67377

Serial publications: Health for the millions

**** VITA - Volunteers in Technical Assistance.**

1815 North Lynn Street,
Suite 200,
Arlington, VA, 22209, USA.
Tel: +1-703-276-1800
Telex: 440192 vitai

Wageningen Agricultural University

Department of Environmental Technology
P.O. Box 8080
6700 Wageningen, The Netherlands
Tel: +31-8370-83174
Fax: +31-8370-84411

Network membership: GARNET topical network coordinator for Wastewater Treatment (Anaerobic)

WASH - Water and Sanitation for Health Project

Room 1002
1611 North Kent Street
Arlington, VA 22209
USA
Tel: +1-703-243-8200
Fax: +1-703-243-9004
Telex: wui 64552

Network membership: GARNET topical network coordinator for Rainwater Harvesting, see also section 2.3 (Data bases)

Serial publications: WASH update

WATERAID

1 Queen Anne's Gate,
London, SW1H 9BT, United Kingdom
Tel: +44-17-233-4800
Fax: +44-71-233-3161
Telex: 918518

Serial publications: Oasis : the WaterAid journal (published twice a year)

Water Research Centre

Stevenage Laboratory
Elder Way
Stevenage, Hertfordshire
SG1 1TH, England
Tel: +44-438-312444
Fax: +44-438-315694
Telex: 826168 G.

Serial publication: Aqualine abstracts (see section 2.2 Abstract Journals)

Water Research Commission

P.O. Box 824,
Pretoria, 0001 South Africa
tel: +27-12-330-0340
fax: +27-12-331-2565
telex: 3-20464 Watko SA

Serial publications: SA Waterbulletin (published 6 times a year); Water SA (published quarterly)

Water Supply and Sanitation Collaborative Council

Secretariat

c/o World Health Organization

Avenue Appia 20

CH-1211 Geneva 27, Switzerland

Tel: +41-22-791-3685

Fax: +41-22-788-0054

Telex: 415416 OMS

WEDC - Water Engineering and Development Centre

Loughborough University of Technology

Leicestershire LE11 3TU

United Kingdom

Tel: +44-509-222643

Fax: +44-509-211079

Network membership: GARNET regional network coordinator; Garnet topical network coordinator for infrastructure for low-income urban housing, institutional development, low-cost sanitation

**** WHO - World Health Organization**

Publications, Distribution and Sales,

20 Avenue Appia,

CH-1211 Geneva 27, SWITZERLAND

Division of Environmental Health

Community Water Supply and Sanitation Unit

Tel: +41-22-791-3546

Fax: +41-22-788-4246

Service of information and documentation

Tel: +41-22-791-3548

Fax: +41-22-791-0746

Serial publications: WHO newsletter on environmental health, World health, World health forum, Bulletin of the World Health Organization

**** World Bank. International Bank for Reconstruction and Development, International Development Association. Infrastructure and Urban Development Department.**

1818 H Street NW,

Washington, DC 20433, USA

Tel: +1-202-477-1234

Fax: +1-202-477-6391

Telex: WUI 64145 WORLDBANK, RCA 248423 WORLDBK

OR

World Bank Publications, 66 avenue d'Iéna, 75116 Paris, France

See also full list of Distributors of World Bank Publications found in most World Bank Publications.

**** WMO - World Meteorological Organization**

PO Box 2300,

CH-1211 Geneva 2, Switzerland,

Tel: +41-22-7308111

Fax: +41-22-7342326

**** World Neighbors**

5116 North Portland Avenue,

Oklahoma City, OK 73112, USA

Tel: +1-405-946-3333

Fax: +1-405-946-9994

Serial publications: World Neighbors in action

**** World Vision International.**

919 W. Huntington Dr.,

Monrovia, CA 91016, USA

Tel: +1-213-357-1111

Telex: 675341

In the field of Water Supply and Sanitation for developing countries a number of initiatives have emerged to encourage collaboration between various national/regional organizations in the form of networks. These are often characterized as being information networks in which libraries and documentation centres play an important role. Some of the more prominent information networks relevant to the sector are mentioned below.

3.3 INFORMATION NETWORKS

African Water Network (AWN)

Established: 1990

Aim: Looking into ways and means of increasing NGO effectiveness by ensuring speedy exchange of ideas, documentation on successful approaches to sustainable water development, coordination of activities in order to avoid duplication of efforts, improved communication with international and donor agencies and personnel training programmes.

Members: 50 NGOs from 17 African countries

Serial publications: **Droplets** (newsletter)

Contact address: c/o P.O. Box 72461, Nairobi, Kenya, tel: +254-2-562015/562022, fax: +254-2-562175, telex: 23240 ELC KE

CEHANET

Established: 1985

Aim: CEHANET is a Regional Environmental Health Information Network. It aims to provide information exchange services to its 22 member states. Areas of interest include community water supply and sanitation, environmental health in rural and urban development and housing, control of potentially toxic chemicals, food safety, and environmental health in refugee camps and emergencies.

Members: Afghanistan, Bahrain, Cyprus, Djibouti, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Pakistan, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, United Arab Emirates, and Yemen.

Serial publications: see CEHA, section 3.2 (organizations)

Contact address: see CEHA, section 3.2 (organizations)

DIVINER**Established:** 1987

Aim: To develop a computer-based information system on water supply and sanitation that caters to the needs of Asian non-governmental organizations (NGOs). Focal points will develop and work on data bases describing/profiling the following types of entities: (a) documentary material and bibliographies; (b) experts/specialists; (c) completed and on-going projects, and (d) institutions/organizations /corporate bodies.

Members: 38 (in Asia)**Serial publications:** *Diviner news***Contact address:** See Approtech Asia, section 3.2 (organizations)***Dracunculiasis Operations Research Network (DORN)*****Established:** 1991**Aim:** Forum for research information on Guinea Worm Disease**Members:** Individuals and organizations involved in combatting Guinea Worm Disease.**Serial publications:** *Countdown***Contact address:** See London School of Hygiene & Tropical Medicine, section 3.2 (organizations)***ENSICNET*****Established:** 1988

Aim: To foster communication of information among its country members and other geographical regions. It is a regional information network dealing with environmental management and pollution control, water supply and sanitation.

Members: Participating countries include China, Indonesia, Nepal, Pakistan, Philippines, and Vietnam.**Serial publications:** *Ensicnet Bibliography, Environment Index***Contact address:** See ENSIC, section 3.2, p. 50

GARNET (Global Applied Research Network for Water Supply and Sanitation)**Established:** March 1989

Aim: To create and support a decentralized structure of existing organizations that, with a modest amount of resources can both expand the number of contacts and establish mechanisms for the exchange of ideas and information on applied research among its target groups.

Thirty topical network coordinators have been established for the following subjects: appropriate technology, dracunculiasis, eutrophication, groundwater pollution, hand pumps (Unimade pumps), housing and health, hygiene behaviour, impact assessment (health), infrastructure for low-income urban housing, institutional development, latrines (emptying of pit latrines), latrines (composting), low-cost sanitation, participatory monitoring and evaluation, pumping (technology, non-mechanized), rainwater harvesting, rainwater harvesting (rainwater quality), social science research on water and sanitation, solar distillation, solar water disinfection, solar water pumping, solid waste recycling, toxic substances, waste management, wastewater reuse, wastewater treatment (anaerobic), wastewater treatment (lagoons), wastewater and water treatment (separation processes), water loss, water treatment (iron removal) and water treatment (suspended solids removal). Individual institutions are mentioned in section 3.2 together with their GARNET topical coordination responsibilities.

Members: 23 organizations (12 in developing countries)

Serial publications: **GARNET news**

Contact address: See WEDC, section 3.2 (organizations)

IDRC Global Handpump Network**Established:** 1988

Aims: To undertake ongoing research and development in handpumps and other water delivery systems at the Research and training Centre, University of Malaya; to disseminate research results to members of the network as well as to interested parties keen to mass-produce the handpumps; and to provide a forum for members to share experiences and problems encountered in designing, modifying, manufacturing, installing and using the UNIMADE handpumps, so that solutions might be collectively addressed.

Members: 13 countries throughout Asia (China, India, Indonesia, Malaysia, Philippines, Sri Lanka, Thailand), Africa (Cameroon, Egypt, Ethiopia, Kenya, Mali) and Central America (Costa Rica).

Serial publications: **Waternet news** (quarterly network newsletter)

Contact address: see IDRC/UM Handpump Project, section 3.2 (organizations)

INFOTERRA

Established: 1977

Aim: To facilitate the exchange of environmental information within and between nations. The INFOTERRA network consists of some 6,000 co-operating institutions (Sources) co-ordinated by 134 National Focal Points. Furthermore, eight Regional Service Centres co-ordinate some of INFOTERRA's activities within their respective regions or sub-regions, and a network of 24 internationally recognized institutions in areas of priority for environmental concerns (Special Sectorial Sources) help provide information to users worldwide.

Members: 6,000 (see above)

Serial publications: Infoterra bulletin

Contact address: contact the INFOTERRA Programme Activity Centre, located at UNEP headquarters in Nairobi, Kenya (see section 2.3 (data bases) and 3.2 (organizations)).

International Training Network for Water and Waste Management (ITN)

Established: 1984

Aim: To promote training and information in the joint UNDP/World Bank Water and Sanitation Programme. This is a multilateral endeavour exploring innovative approaches for the extension of water and sanitation coverage to low-income, mostly unserved groups.

Members: Network Centres within institutions in developing countries (universities, water authority training centres, NGOs). As of January 1992 there were nine core centres (2 in Indonesia, 1 in India, 1 in the Philippines, 1 in Bangladesh, 1 in Kenya (see AMREF), 1 in Zimbabwe, 1 in Burkina Faso, 1 in Ghana, 1 in the United States).

Serial publications: ITN quarterly newsletter [Philippines]; Rural water and waste management news : a newsletter of the ITN Centre [India]; TNC news [Ghana]

Contact address: See UNDP/World Bank Water and Sanitation Program in section 3.2 (organizations)

NETWAS (Network for Water and Sanitation)**Established: 1986**

Aim: Training in community-based water supply and sanitation technologies appropriate to the Eastern Africa region. One of its main functions is the dissemination of Water Supply and Sanitation information among the participating institutions in the region and similar institutions internationally. NETWAS was established as part of the International Training Network for Water and Waste Management (ITN), which can be seen as the Human Resources Development wing of the UNDP/World Bank Water and Sanitation Programme.

Members: Six East-African countries: Ethiopia, Kenya, Somalia, Sudan, Tanzania and Uganda.

Serial publications: **Water and sanitation news** (3 times a per year)

Contact address: see AMREF, section 3.2 (organizations)

PERIURBAN NETWORK**Established: 1992**

Aim: Improve communication and dissemination of information to researchers and practitioners involved in water and sanitation in periurban areas.

Members: 547 members worldwide

Serial publications: **Voices from the city** (twice a year)

Contact address: see Wash, section 3.2 (organizations)

REPIDISCA (Red Panamericana de Información y Documentación en Ingeniería Sanitaria y Ciencias del Ambiente)**Established: 1982**

Aim: The dissemination of information on Sanitary Engineering and Environmental Sciences in Latin America and the Caribbean.

Members: Participating countries include: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Dominican Republic, Uruguay and Venezuela.

Serial publications: see section 3.2 (organizations) under CEPIS

Contact address: see section 3.2 (organizations) under CEPIS

Other relevant points: see section 2.3 (data bases)

RHIC Network (Rainwater Harvesting Information Centre)

Established: 1986

Aim: Disseminating information on rainwater harvesting activities ranging from both rural and urban community projects to university-based research.

Members: 820 individuals and institutions from 101 countries (as 1993)

Serial publications: *Raindrop* (2 per year)

Contact address: section 3.2 (organizations) under WASH

Other relevant points: see section 2.3 (data bases)

SATIS (Global Union for Technologies for Environment and Sustainable Development)

Established: 1982

Aim: To promote economic and social improvement in rural and marginal urban areas. The common activities are to research, record, report and replicate technologies and appropriate products which can bring significant change in people's lives and prospects. SATIS also maintains an electronic communications network known as SATISNET.

Members: ca. 75

Contact address: see SATIS, section 3.2 (organizations)

Water and Sanitation Information Network - Indonesia (WASIN)

Established: 1988

Aim: To act as an information network in water supply and sanitation in Indonesia.

Members: Five library and documentation units in the Directorate General of Human Settlements (Cipta Karya), Ministry of Public Works and three in the Directorate General of Communicable Disease Control and Environmental Health (CDC-EH) of the Ministry of Health.

Serial publications: -

Contact address: -

Other relevant points: Network financed by IDRC.

List of Useful Documents for Resource Centres

IRC (1988) *Info-impact : report on working meeting on information exchange for water supply and sanitation : The Hague, 22-24 September 1987*. The Hague, The Netherlands, IRC International Water and Sanitation Centre. 140 p.

Kannapiran, Chandra ; Munjal, Seema ; Kapoor, Anjala ; Malhotra, Kamini (1988) *Basics of documentation*. New Delhi, India, Voluntary Health Association of India. 89 p.

Muya, Edward Waiguru ; Macharia, Dianah (1992) *Where there is no librarian : an information management manual*. Nairobi, Kenya, Environmental Liaison Centre International. 84, viii p.

Naber, G. (1991) *An agricultural library : its start and management*. (Publication / ILRI ; no. 50). Wageningen, The Netherlands, International Institute for Land Reclamation and Improvement. 123 p.

Nieuwenhuysen, P. ; Provost, F. ; Mes, W.W. de (1992) *Information related to water and environment : databases available online and on CD-ROM*. (Technical documents in hydrology). Paris, France, International Hydrological Programme, UNESCO.

Parker, Stephen J. (1990) Developing information systems in the water and sanitation sector. In: *Information development*, vol. 6, no. 4, p. 215-222

Parker, Stephen (1993) *Information management in the water and sanitation sector : lessons learned from field assignments in Africa and Asia*. (Occasional paper series : no. 19). The Hague, The Netherlands, IRC International Water and Sanitation Centre. viii, 83 p.

Philipps, Eva (1990) *Documentation made easy : a library manual for nongovernmental organizations specializing in appropriate technology and rural development*. Braunschweig, Federal Republic of Germany, Vieweg. 207 p.

Sicevic, M. (1992) *Recommendations to water-related database designers aiming at bibliographic database design and creation based on the Micro CDS/ISIS and the CCF*. (Technical documents in hydrology) Paris, France, International Hydrological Programme, UNESCO. Ca. 44 p.

Appendix 1: The Lusophone Initiative

Under the aegis of the Water Supply and Sanitation Collaborative Council, Maria Lucia Borba has prepared for IRC an **Inventory of the Main Sources of Information in Portuguese for the Water Supply and Sanitation Sector** [in Portuguese]. It concentrates on collating existing information in Portuguese for the sector which could be useful for the Portuguese-speaking African Countries (PACs). In its current form, the **Inventory** covers many of the institutions considered to be the most relevant ones for generating, processing and disseminating information in Portuguese for the water supply and sanitation sector.

Objective

The main objective of the **Inventory** is to present the most relevant sources of information in Portuguese for the water supply and sanitation sector that can be useful for the PACs, and help with the elaboration of a programme of capacity building in information management in these countries.

Compilation of the Inventory

How the information was collected

Questionnaires were prepared and sent to institutions and organizations in Portugal, in Brazil and in the Portuguese speaking countries of Africa. The information collected through the questionnaires about the existing sources of sector information in these countries and the capacity of the institutes housing these sources to contribute to the process of information exchange in the context of the Lusophone countries of Africa were crucial for the preparation of the **Inventory**.

Furthermore, contributions coming from key institutions playing an active role in the management of information at regional and national level were relevant for the purposes of the **Inventory**.

Structure

The **Inventory** is divided in five PARTS:

PART I gives information about the programme of collaboration with the PACs for capacity building in information management for the water supply and sanitation sector. The **Inventory**, one of the activities included in this programme, is thoroughly described in PART I;

PART II describes the institutions considered relevant sources of information in Portuguese for the sector. These institutions have replied to the questionnaire sent to them by IRC, showing an interest in possible collaboration with the programme;

PART III gives details on relevant information networks;

PART IV gives some examples of periodical and non periodical publications and other materials which can be acquired; and,

PART V gives a list of some special instruments that could be useful for the completion of the information infrastructure.

Appendix 2: Comparison of CD-ROMs

Cor Dietvorst (Documentalist) at IRC undertook a comparison of some of the data bases available on CD-ROM. The results of his investigations are presented here.

Compact Cambridge offer four water-related data bases on CD-ROM collectively called the Aquatic Library:

<i>Data base</i>	<i>Producer(s)</i>
AQUALINE Aquatic Sciences and Fisheries Abstracts (ASFA)	Water Research Centre (UK) UN Office for Ocean Affairs and the Law of The Sea, Intergovernmental Oceanographic Commission, and UNEP
Selected Water Resources Abstracts (SWRA)	Geological Survey of the US Dept. of the Interior
WATERLIT	South African Water Information Centre

The IRC Documentation Unit made use of a 30-day free trial offer to test all four CD-ROMs in May-June 1992. The CD-ROMs were user friendly, although truncated searching was very slow, sometimes taking more than 5 minutes when several terms were truncated. In comparison, truncated searching in Silverplatter CD-ROMs such as TROPAG&RURAL and in our own in-house MINISIS database IRCDOC usually takes less than 30 seconds.

Coverage

The Aquatic Library CD-ROMs mainly cover English scientific literature produced in developed countries. As such only a small portion of their references relate directly to developing countries. Moreover they focus on science and technology, with little attention being given to "software" aspects such as community management and hygiene education. Nevertheless, you can be fairly certain that if a journal article has been published on aquatic science in a developing country you will find it on one or more of the CD-ROMs.

The general subject coverage of the CD-ROMs is listed below.

<i>Data base</i>	<i>Coverage</i>
Aqualine	Commercial, scientific and technical aspects of water, wastewater, and the aquatic environment
ASFA	Scientific, technical and management aspects of aquatic biology, ocean technology and aquatic pollution in marine, freshwater and brackish water environments
SWRA	Scientific, management and policy aspects of water resources
WATERLIT	Scientific and technical aspects of water, wastewater, and sanitation from an industrial perspective

To compare the coverage of the CD-ROMs, several "quick-and-dirty" searches were performed in each of them. The results and some general information of the CD-ROMs are given below:

	AQUALINE	ASFA	SWRA	WATERLIT	IRCDOC
Total ref.	138,000	340,000	243,000	185,000	8,000
Annual increase	8,000	36,000	12,000	3,000	1,000
Abstracts	yes	yes	yes	no	7%
Period	1960-	1982-	1968-	1975-	1980-
Subscription price (US\$)*	1,495	5,690**	1,295	995	N.A.
Updates/year	4	4	4	4	N.A.

Number of References on:

Developing countries	7,000	18,000	3,300	6,500	7,900
Handpumps	179	3	52	149	502
Community participation	63	23	721	810	1,107
Cost recovery	25	8	112	130	142
Women	79	169	118	56	667
Hygiene/health education	82	8	114	30	818
Water committees	32	0	20	3	146
Slow sand filtration	359	5	161	256	217

* Compact Cambridge offer all four CD-ROMs for US\$ 6,995 with a renewal price of US\$ 4,995

** 1982-present US\$ 4,995, 1988-present US\$ 2,495, 1978-1982 back files US\$ 695, renewal subscription price: US\$ 1,495

On-line versus CD-ROM

Since all the Compact Cambridge data bases are also available on-line, quite a number of searches will need to be performed if the CD-ROMs are to justify the investment. An estimated break-even point based on Dutch telecommunication costs is presented below. For developing countries, with poor or expensive telecommunication facilities, the advent of CD-ROMs may offer users the first real opportunity to gain access to Western scientific literature. CD-ROMs also bring information retrieval closer to end-users. They can be searched at leisure and do not have the pressure associated with on-line searches, where time and the number of records printed affect the costs.

<i>Data base</i>	<i>Host</i>	<i>Costs (US\$)</i>		
		<i>On-line search costs*</i>	<i>Break-even no. of searches</i>	<i>CD-ROM costs</i>
AQUALINE	Orbit	63	24	1,495
ASFA	ESA/IRS			
- first year		46	124	5,690
- following years		46	33	1,495
SWRA	ESA/IRS	40	32	1,295
WATERLIT	info not available		-	995

* based on a 20 minute search, 10 search terms and 20 full bibliographic references with abstracts displayed on-line

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European Office, Compact Cambridge, Oranje Nassaulaan 31, 1075 AJ Amsterdam, The Netherlands, tel: +31-20-671 5686, fax: +31-20-671 5231

Annual subscription price: ca. US\$ 150 for 3 issues.

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IRC International Water and Sanitation Centre is an independent, international clearing house on solutions for water supply and sanitation problems in developing countries.

It has published the following selected information sources for easy reference of sector professionals:

Inventory of selected training materials for water supply and sanitation

Prepared on behalf of the UNDP/World Bank Water and Sanitation Programme

(RS 7) 154 pages 1991

List of basic publications on water supply and sanitation: a selected bibliography

(RS 6) 94 pages 1991

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Related services are briefing and training programmes, which takes place at IRC in the Hague, or with partner organizations in Cameroon and Burkina Faso.