



R C

International Water and Sanitation Centre

REPORT

## List of Basic Publications

on

## Water Supply and Sanitation

A Selected Bibliography

## **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 aims to ensure the availability and use of appropriate knowledge and information in the water, sanitation and 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, the roles of women, maintenance systems, rehabilitation and environmental management.

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

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Cable: Worldwater, The Hague

# *LIST OF BASIC PUBLICATIONS*

## *on Water Supply and Sanitation*

### *A Selected Bibliography*

LIBRARY, INTERNATIONAL REFERENCE  
CENTRE FOR ENVIRONMENTAL WATER SUPPLY  
AND SANITATION (IRC)  
P.O. Box 9497, 2509 AD The Hague  
Tel. (070) 814911 ext. 141/142

RN: *FSN 10063*  
LQ: *021 9161*

A contribution to Safe Water 2000

IRC International Water and Sanitation Centre  
The Hague, The Netherlands  
1991

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## *Preface*

Over the years and particularly within the framework of the International Drinking Water Supply and Sanitation Decade (IDWSSD) a vast body of technical information on water supply and sanitation has been generated. Unfortunately many professional staff both in the field and behind a desk do not always have ready access to this information. The United Nations Steering Committee for Co-operation Action for the Decade expressed a need to develop a list of basic publications in community water supply and sanitation.

Thus, in 1987, a first edition of the List of Basic Publications with 90 entries was completed by IRC International Water and Sanitation Centre with co-funding from WHO and UNDP. In the last few years many new books have been published on important sector issues and experiences, among others the involvement of the benefitting community - and in particular women, cost recovery, and health education, that would enhance the sustainability of existing water supply and sanitation services. Growing concern about the organisation and extension of services to the increasing urban population and about the environmental aspects that affect the sustainability of water supply and sanitation schemes was further expressed during the Global Consultation on "Safe Water 2000" held in New Delhi in September 1990.

To keep pace with new developments and directions in the sector IRC decided to bring out a new list of basic publications to serve sector professionals. The present list includes a range of new titles for the existing sections. A new section covering environmental engineering concerns has been added as well. The new list comprises 130 references to documents and is designed to assist professional staff - generalists, specialists and field staff - to retrieve technical information relevant to their needs.

It is inevitable that users may know of valuable and relevant documents, journals and newsletters which may have been omitted. From time to time the list of basic publications will need to be revised and updated. Any comments and suggestions to improve the basic list would be most welcome and can be addressed to: Information Division IRC.

IRC is grateful to the UNDP-World Bank Water and Sanitation Programme for the support received towards the printing of this List of Basic Publications on Community Water Supply and Sanitation.

## *Acknowledgements*

IRC International Water and Sanitation Centre wishes to acknowledge the contributions of the staff of the following organisations: United Nations Development Programme (UNDP), New York; UNDP/World Bank Water and Sanitation Programme, Washington; World Health Organization, Geneva; United Nations Environmental Programme (UNEP), Nairobi; Water and Sanitation for Health Project (WASH), Arlington; Swiss Centre for Appropriate Technology (SKAT), St.Gallen.

IRC is further particularly indebted to Mr. J. Balek (UNEP), Mr. Craig Hafner (WASH), Mr. Karl Wehrle (SKAT), Mrs. Christine van Wijk (IRC), Mr. Dick de Jong (IRC) and the staff of the IRC documentation centre, notably Ms. Bettie Westerhof and Mr. Cor Dietvorst, for their support to the updating of the List of Basic Publications. Mrs. Hanneke Barten did a lot of preparatory work for this publication and provided typing support, Ms. Lauren Wolvers undertook the desktop publishing tasks.

The compilation of this List of Basic Publications was directed and edited by Mr. Han Heijnen, Senior Programme Officer for Information at IRC.

### **Note:**

Prices mentioned in this list were correct at the time of publication. However publishers may increase the price of books without notice, and so prices should be considered indicative only. IRC does not accept responsibility for changes in the cost of the publications mentioned.

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- I Policy, Strategies, Planning and Evaluation***  
 Policy Development  
 Strategies and Approaches  
 Planning and Programming  
 Monitoring and Evaluation
- II Health and Hygiene***  
 Health; Hygiene; Environment  
 Community and School Hygiene Education
- III Society/Community Education and Participation***  
 Community Involvement; Role of Women  
 Socio-economic Aspects; Survey Methods  
 Institutional Aspects; Legislation
- IV Organization, Management and Finance***  
 Administration and Organization  
 Construction, Operation and Maintenance  
 Marketing and Economics, Finance
- V Human Resource Development and Information Exchange***  
 Management of Human Resources  
 Training Methods; Curriculum Development  
 Communication; Information Exchange & Transfer
- VI Water Supply Technologies***  
 General  
 Water Resources; Sources of Supply  
 Collection; Lifting and Pumping Technologies  
 Water Distribution and Storage  
 Domestic Storage and Use of Water  
 Water Quality and Treatment
- VII Sanitation Technologies***  
 General  
 On-site Sanitation, Off-site Treatment  
 and Disposal, Solid Waste Disposal
- VIII Environmental Engineering Concerns***  
 Drainage, Vector Control  
 Erosion control, Source protection  
 Water resources management



# *USERS GUIDE*

This list of basic publications in water supply and sanitation has been prepared for ready reference for professional staff working in the sector. The contents are set out as follows:

## **SECTION 1: KEY TO DOCUMENTS**

In this section documents are listed per user category; Part A: **Generalists**, Part B: **Specialists** (at programme level) and Part C: **Fieldstaff** (at project level). In all parts the documents are grouped according to subject in eight categories:

- I Policies, Strategies, Planning and Evaluation
- II Health and Hygiene
- III Society/Community, Education and Participation
- IV Organization, Management and Finance
- V Human Resources Development and Information Exchange
- VI Water Supply Technologies
- VII Sanitation Technologies
- VIII Environmental Engineering Concerns

A detailed list of the topics covered under each of the eight categories can be found on the left.

Each entry in the various categories of Section 1 is listed alphabetically according to title. In the right-hand column beside each entry there is a numbered cross reference to the corresponding entry in Section 2, which gives detailed bibliographic information including an abstract.

## **SECTION 2: ANNOTATED BIBLIOGRAPHY**

All documents listed in Section 1 are presented in the annotated bibliography, and are arranged in alphabetical order according to author. The following information is provided for each entry:

Author  
Year of Publication  
Title  
Publisher and Place  
Latest known price, if any  
Abstract

**SECTION 3: ADDRESSES OF PUBLISHERS AND INFORMATION EXCHANGE CENTRES**

A list of addresses of publishers is presented to simplify ordering. In addition useful addresses of information exchange centres that stock some of the titles mentioned in the List or may have a copy of a particular title, are given.

**SECTION 4: JOURNALS AND NEWSLETTERS**

In this section the major English language journals, newsletters and bibliographic services are listed.

The publisher, the frequency of publication, the cost of the annual subscription as well as any other relevant information is provided.

# *SECTION I: KEY TO DOCUMENTS*

## **PART A: LITERATURE RECOMMENDED FOR POLICY MAKERS, PLANNERS AND ADMINISTRATORS**

### **(GENERALISTS)**

	<b>no. refers to description in section II</b>
<b>I POLICIES, STRATEGIES, PLANNING AND EVALUATION</b>	<b>no.</b>
<b>A summary of technical and economic options</b>	
Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1980)	55
<b>Appropriate sanitation alternatives. A technical and economic appraisal</b>	
Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1982)	56
<b>Community participation and hygiene education in water supply and sanitation</b>	
GTZ (1989)	36
<b>Community participation in water and sanitation: concepts, strategies and methods</b>	
White, Alastair (1981)	112
<b>Drinking water source protection: an overview of problems, causes, experiences and needs</b>	
Lee, Michael; Bastemeijer, Teun (1991)	66
<b>Drinking-water and sanitation, 1981-1990 : a way to health : a WHO contribution to the international drinking water supply and sanitation decade</b>	
WHO (1981)	113

	<b>no.</b>
<b>Evaluation for village water supply planning</b> Cairncross, Sandy; Carruthers, Ian; Curtis, Donald; Feachem, Richard; Bradley, David; Baldwin, George (1980)	16
<b>Evaluation guidelines for community-based water and sanitation projects</b> Roark, Philip (1990)	89
<b>Guiding principles for national monitoring of the water supply and sanitation sector</b> WHO (1986)	118
<b>In the shadow of the city: community health and the urban poor</b> Harpham, Trudy; Lusty, Tim; Vaughan, Patrick (1988)	40
<b>Lessons learned from the WASH Project: ten years of water and sanitation experience in developing countries</b> Water and Sanitation for Health Project (1990)	105
<b>Minimum evaluation procedure (MEP) for water supply and sanitation projects</b> WHO (1983)	114
<b>Project appraisal and planning for developing countries</b> Little, I.M.D. ; Mirrlees, J.A. (1988)	67
<b>The private provision of public services in developing countries</b> Roth, Gabriel (1987)	90
<b>Water and sanitation: economic and sociological perspectives</b> Bourne, Peter G. (1984)	12
<b>Water for rural communities : helping people to help themselves</b> Briscoc, John; De Ferranti, David (1988)	14
<b>Water resource management: integrated policies</b> OECD (1989)	76

<b>II HEALTH AND HYGIENE</b>	<b>no.</b>
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Health and irrigation : incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Hygiene education in water supply and sanitation programmes : literature review with selected and annotated bibliography</b> Burgers, Lizette; Boot, Marieke; Wijk-Sijbesma, Christine van (1988)	15
<b>Sanitation and disease : Health aspects of excreta and wastewater management</b> Feachem, Richard G.; Bradley, David J.; Garclick, Hemda; Mara, D. Duncan (1983)	31
 <b>III SOCIETY/COMMUNITY EDUCATION AND PARTICIPATION</b>	
<b>Community health and sanitation</b> Kerr, Charles (Ed.) (1990)	59
<b>Community water development</b> Kerr, Charles (1989)	60
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Community participation and women's involvement in water supply and sanitation projects, a compendium paper</b> Wijk-Sybesma, Christine van (1988)	127
<b>Community water supply: the handpump option</b> Arlosoroff, Saul; Tschannerl, Gerhard; Grey, David; Journey, William; Karp, Andrew; Langenegger, Otto; Roche, Robert (1987)	4
<b>Facts for life : a communication challenge</b> Adamson, Peter (1989)	1

	<b>no.</b>
<b>Facts for life : a resource book (adapted title)</b> Actual title: All for health : a resource book for Facts for Life Williams, Glen (1989)	128
<b>Participation of women in water supply and sanitation : roles and realities</b> Wijk-Sijbesma, Christine van (1985)	125
<b>Water and sanitation: economic and sociological perspectives</b> Bourne, Peter G. (1984)	12
 <b>IV ORGANIZATION, MANAGEMENT AND FINANCE</b>	
<b>A summary of technical and economic options</b> Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1980)	55
<b>Community management of rural water supply and sanitation services</b> McCommon, Carolyn; Warner, Dennis; Johalem, David (1990)	71
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Institutional development in community water supply and sanitation: themes and questions</b> WHO (1986)	119
<b>Managing institutional development projects: water and sanitation sector</b> Edwards, Daniel B. (1988)	27
<b>Water supply and sanitation: handbook of financial principles and methods</b> Nyumbu, I.L.; Scott.M.; Seager M.; Wang, C.; Laugeri L. (Ed.) (1990)	75
<b>What price water? User participation in paying for community-based water supply ; with particular emphasis on piped systems</b> Wijk-Sijbesma, Christine van (1987)	126

<b>V HUMAN RESOURCES DEVELOPMENT AND INFORMATION EXCHANGE</b>	<b>no.</b>
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Evaluating water supply and sanitation projects : training course</b> Boot, Marieke (1987)	11
<b>Facts for life : a communication challenge</b> Adamson, Peter (1989)	1
<b>Facts for life : a resource book (adapted title)</b> Actual title: All for health : a resource book for Facts for Life Williams, Glen (1989)	128
<b>Human resource development planning: guidelines for the water supply and sanitation sector</b> Lawrence, J.E.S; Tomaro, J. B. (1988)	64
<b>Human resources development handbook: guidelines for ministries &amp; agencies responsible for water supply and sanitation</b> Carefoot, Neil; Gibson, Howard (1984)	19
<b>Inventory of selected training materials for water supply and sanitation</b> IRC (1990)	49
<b>Training for development</b> Lynton, Rolf P.; Pareek, Udai (1978)	68
<b>Info-Impact: report on a working meeting on information exchange for water supply and sanitation</b> IRC (1987)	48
<b>The International Drinking Water Supply and Sanitation Decade directory: catalogue of external support and consultants directory</b> World Water; WHO (1987)	130

<b>VI WATER SUPPLY TECHNOLOGIES</b>	<b>no.</b>
<b>Community water supply: the handpump option</b> Arlosoroff, Saul; Tschannerl, Gerhard; Grey, David; Journey, William; Karp, Andrew; Langenegger, Otto; Roche, Robert (1987)	4
<b>Maintenance systems for rural water supplies</b> Bastemeyer, Tcun; Visscher, Jan Teun (1987)	7
<b>Rain and stormwater harvesting in rural areas: a report</b> UNEP (1983)	102
<b>Renewable energy sources for rural water supply</b> Hofkes, E.H.; Visscher, J.T. (1986)	45
<b>Small community water supplies: technology of small water supply systems in developing countries</b> Hofkes, E.H. (ed.) (1983)	44
<b>Technology for water supply and sanitation in developing countries: report of a WHO Study Group</b> WHO Study Group on Technology for Water Supply and Sanitation in Developing Countries (1987)	122
 <b>VII SANITATION TECHNOLOGIES</b>	
<b>A guide to the development of on-site sanitation</b> Francceys, Richard; Pickford, John; Reed, Bob (1991)	33
<b>Guidelines for the safe use of wastewater and excreta in agriculture and aquaculture : measures for public health protection</b> Mara, Duncan; Cairncross, Sandy (1989)	70
<b>Health and irrigation: Incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Human waste use in agriculture and aquaculture: utilization practices and health perspectives</b> Executive summary prepared by Pescod, M.B.; Strauss, Martin; Blumenthal, Ursula (1990)	99



	<b>no.</b>
<b>Low cost sewerage options study</b> Australian Water Resources Council (1989)	103
<b>Managing solid wastes in developing countries</b> Holmes, John R. (1984)	46
<b>Water, wastes and health in hot climates</b> Feachem, Richard G.; McGarry, Michael G.; Mara, D. Duncan (1980)	30
 <b>VIII ENVIRONMENTAL CONCERNS</b>	
<b>Health and irrigation : Incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Housing and Health: an agenda for action</b> WHO/EHE/RUD	121
<b>Human waste use in agriculture and aquaculture: utilization practices and health perspectives</b> Executive summary prepared by Pescod, M.B.; Strauss, Martin; Blumenthal, Ursula (1990)	99
<b>Rain and stormwater harvesting in rural areas: a report by the United Nations Environment Programme</b> UNEP (1983)	102
<b>Setting environmental standards: guidelines for decision-making</b> Koning, H.W. de (1987)	61
<b>Vanishing land and water: soil and water conservation in dry lands</b> Chlcq, Jean-Louis; Dupriez, Hugues (1989)	21
<b>Water resource management: integrated policies</b> OECD (1989)	76

**PART B: LITERATURE RECOMMENDED FOR  
PROGRAMME STAFF, ENGINEERS  
AND EXTENSION SPECIALISTS**

**(PROGRAMME LEVEL STAFF)**

**no. refers  
to description  
in section II**

**I POLICIES, STRATEGIES, PLANNING AND  
EVALUATION**

**no.**

**A summary of technical and economic options**

Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1980) 55

**Achieving success in community water supply and sanitation projects**

Chandler, Charles G. (1985) 20

**Appropriate sanitation alternatives A technical and economic appraisal**

Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1982) 56

**Community participation and hygiene education in water supply and  
sanitation**

GTZ (1989) 36

**Drinking water source protection: an overview of problems, causes,  
experiences and needs**

Lee, Michael; Bastemeijer, Teun (1991) 66

**Drinking-water and sanitation, 1981-1990 : a way to health :  
a WHO contribution to the international drinking water supply and  
sanitation decade**

WHO (1981) 113

**Evaluation for village water supply planning**

Cairncross, Sandy; Carruthers, Ian; Curtis, Donald; Feachem, Richard;  
Bradley, David; Baldwin, George (1980) 16

	<b>no.</b>
<b>Evaluation guidelines for community-based water and sanitation projects.</b> Roark, Philip (1990)	89
<b>Guidelines for drinking water quality; Vol.1: Recommendations</b> WHO (1984-1985)	115
<b>Guiding principles for national monitoring of the water supply and sanitation sector</b> WHO (1986)	118
<b>In the shadow of the city: community health and the urban poor</b> Harpham, Trudy; Lusty, Tim; Vaughan, Patrick (1988)	40
<b>Lessons learned from the WASH Project: ten years of water and sanitation experience in developing countries</b> Water and Sanitation for Health Project. (1990)	105
<b>Minimum evaluation procedure (MEP) for water supply and sanitation projects</b> WHO (1983)	114
<b>Piped supplies for small communities: applying the partnership approach</b> IRC (1991)	51
<b>Project appraisal and planning for developing countries</b> Little, I.M.D. ; Mirrlees, J.A. (1988)	67
<b>The private provision of public services in developing countries</b> Roth, Gabriel (1987)	90
<b>Water and sanitation: economic and sociological perspectives</b> Bourne, Peter G. (1984)	12
<b>Water for rural communities : helping people to help themselves</b> Briscoe, John ; De Ferranti, David (1988)	14
<b>Water resources: planning and management</b> Helweg, Otto J. (1985)	42

	<b>no.</b>
<b>Water, wastes and health in hot climates</b> Feachem, Richard G.; McGarry, Michael G.; Mara, D. Duncan (1980)	30
 <b>II HEALTH AND HYGIENE</b>	
<b>Adding guinea worm control components: Guidelines for water and sanitation projects</b> Prins, Agma; Yacoob, May (1988)	85
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Control of communicable diseases in man: an official report of the American Public Health Association</b> Benenson, Abram S. (1990)	9
<b>Engineering against schistosomiasis / bilharzia. Guidelines towards control of the disease</b> Pike, E.G. (1987)	83
<b>Environmental health engineering in the tropics: an introductory text</b> Cairncross, Sandy; Feachem, Richard G. (1983)	17
<b>Guide to simple sanitary measures for the control of enteric diseases</b> Rajagopalan, S; Shiffman, M.A. (1974)	88
<b>Guidelines for drinking water quality; Vol.2: Health criteria and other supporting information</b> WHO (1984-1985)	116
<b>Health and irrigation: incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Hygiene education in water supply and sanitation programmes: literature review with selected and annotated bibliography</b> Burgers, Lizette; Boot, Marieke; Wijk-Sijbesma, Christine van (1988)	15

	<b>no.</b>
<b>Sanitation and disease: health aspects of excreta and wastewater management</b>	
Feachem, Richard G.; Bradley, David J.; Garelick, Hemda; Mara, D. Duncan (1983)	31
<b>Small scale sanitation</b>	
Cairncross, Sandy (1988)	18
<b>Where there is no doctor: a village health care handbook</b>	
Werner, David (1988)	110
 <b>III SOCIETY/COMMUNITY EDUCATION AND PARTICIPATION</b>  	
<b>Community health and sanitation</b>	
Kerr, Charles (Ed.) (1990)	59
<b>Community water development</b>	
Kerr, Charles (1989)	60
<b>Community participation and hygiene education in water supply and sanitation</b>	
GTZ (1989)	36
<b>Community participation and women's involvement in water supply and sanitation projects: a compendium paper</b>	
Wijk-Sybesma, Christine van (1988)	127
<b>Community self-improvements in water supply and sanitation: a training and reference manual for community health workers, community development workers and other community-based workers</b>	
Smet, Jo; Visscher, Jan Teun; Ginhoven, Dick van; Ankersmit, Willem (1988)	96
<b>Community water supply: the handpump option.</b>	
Arlosoroff, Saul; Tschannerl, Gerhard; Grey, David; Journey, William; Karp, Andrew; Langenegger, Otto; Roche, Robert (1987)	4

	<b>no.</b>
<b>Developing and using audio-visual materials in water supply and sanitation programs</b> Karlin, Barry; Isely, Raymond B. (1984)	57
<b>Education for health: a manual on health education in primary health care</b> WHO (1988)	123
<b>Environmental health engineering in the tropics: an introductory text</b> Cairncross, Sandy; Feachem, Richard G. (1983)	17
<b>Facts for life: a communication challenge</b> Adamson, Pcter (1989)	1
<b>Facts for life: a resource book (adapted title)</b> Actual title: All for health: a resource book for Facts for Life Williams, Glen (1989)	128
<b>Handpumps: issues and concepts in rural water supply programmes</b> IRC; IDRC (1988)	50
<b>Hygiene education in water supply and sanitation programmes: literature review with selected and annotated bibliography</b> Burgers, Lizette; Boot, Marieke; Wijk-Sijbesma, Christine van (1988)	15
<b>Involving women in sanitation projects</b> Perrett, Heli E. (1985)	82
<b>Making microplans: a community-based process in programming and development</b> Goethert, Reinhard; Hamdi, Nabeel (1988)	35
<b>Making the links: guidelines for hygiene education in community water supply and sanitation; with particular emphasis on public standpost water supplies</b> Boot, Maricke T. (1984)	10
<b>Methods for gathering socio-cultural data for water supply and sanitation projects</b> Simpson-Hébert, Mayling (1983)	94

	<b>no.</b>
<b>New participatory frameworks for the design and management of sustainable water supply and sanitation projects</b> Donnelly-Roark, Paula (1987)	25
<b>Participation of women in water supply and sanitation: roles and realities</b> Wijk-Sijbesma, Christine van (1985)	125
<b>Participatory monitoring and evaluation: handbook for training field workers</b> Stephens, Alexandra; Ill. Putman, Kees (1988)	97
<b>Piped supplies for small communities: applying the partnership approach</b> IRC (1991)	51
<b>Planning of communication support (information, motivation and education) in sanitation projects and programs</b> Perrett, Heli E. (1983)	81
<b>Small projects training manual: Vol.I : administrative and community development</b> Guoth-Gumberger, M; and Gumberger, R. (1987)	39
<b>Water and sanitation: economic and sociological perspectives</b> Bourne, Peter G. (1984)	12
<b>Water supply and sanitation in developing countries</b> Dangerfield, Bernard J. (1983)	24
<b>What price water? User participation in paying for community-based water supply; with particular emphasis on piped systems</b> Wijk-Sijbesma, Christine van (1987)	126

#### **IV ORGANIZATION, MANAGEMENT AND FINANCE**

<b>A summary of technical and economic options</b> Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1980)	55
<b>Aqua plus guidelist Appropriate technology for water supply and sanitation in the developing countries</b> Bayer, Paul (1988)	8

	<b>no.</b>
<b>Community management of rural water supply and sanitation services</b> McCommon, Carolyn; Warner, Dennis; Johalem, David (1990)	71
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Guidelines for conducting a financial management assessment of water authorities</b> Johnson, Sally S. (1988)	52
<b>Guidelines for cost management in water and sewerage institutions</b> Johnson, Ronald W. (1988)	53
<b>Guidelines for institutional assessment: water and wastewater institutions</b> Cullivan, Donald, et al. (1988)	23
<b>Handpumps: issues and concepts in rural water supply programmes</b> IRC; IDRC (1988)	50
<b>Institutional development in community water supply and sanitation: themes and questions</b> WHO (1986)	119
<b>Managing institutional development projects: Water and sanitation sector</b> Edwards, Daniel B. (1988)	27
<b>Manual for rural water supply</b> Helvetas; SKAT (1985)	95
<b>Piped supplies for small communities: applying the partnership approach</b> IRC (1991)	51
<b>Small projects training manual: Vol.I : administrative and community development</b> Guoth-Gumberger, M; and Gumberger, R. (1987)	39
<b>Water supply and sanitation: Handbook of financial principles and methods</b> Nyumbu, I.L.; Scott.M.; Seager M.; Wang, C.; Laugeri L.(Ed.) (1990)	75



	<b>no.</b>
<b>What price water? User participation in paying for community-based water supply; with particular emphasis on piped systems</b> Wijk-Sijbesma, Christine van (1987)	126
 <b>V HUMAN RESOURCES DEVELOPMENT AND INFORMATION EXCHANGE</b>  	
<b>Community participation and hygiene education in water supply and sanitation</b> GTZ (1989)	36
<b>Evaluating water supply and sanitation projects: training course</b> Boot, Marieke (1987)	11
<b>Facts for life: a communication challenge</b> Adamson, Peter (1989)	1
<b>Facts for life: a resource book (adapted title)</b> <b>Actual title: All for health: a resource book for Facts for Life</b> Williams, Glen (1989)	128
<b>Helping health workers learn: a book of methods, aids, and ideas for instructors at the village level</b> Werner, David; Bower, Bill (1982)	111
<b>Inventory of selected training materials for water supply and sanitation</b> IRC; WB (1990)	49
<b>Participatory monitoring and evaluation Handbook for training field workers</b> Stephens, Alexandra; Ill. Putman, Kees (1988)	98
<b>The community health worker Working guide; guidelines for training; guidelines for adaption</b> WHO (1987)	120
<b>Training skills for supervisors</b> Flanagan, Donna R. (1987)	32

	<b>no.</b>
<b>General introduction to the techniques of information and documentation work</b> Guinchat, Claire; Menou, Michel (1983)	38
<b>Info-Impact: report on a working meeting on information exchange for water supply and sanitation</b> IRC (1988)	48
<b>Interwater thesaurus for community water supply and sanitation</b> Leatherdale, Donald (1987)	65
<b>POETRI reference manual</b> IRC; UNESCO, Division of the General Information Programme (1981)	47
<b>Organizing documentation services for the water supply and sanitation sector, volume I</b> Austriaco, Lilia; Parker, Stephen (1991)	5
 <b>VI WATER SUPPLY TECHNOLOGIES</b>	
<b>A groundwater primer</b> Hey, G.J.; Meinardi C.R. (1991)	43
<b>A handbook of gravity-flow water systems for small communities</b> Jordan, Thomas D. (1984)	54
<b>Appropriate building materials</b> Stulz, R.; Mukerji, K. (1988)	100
<b>Aqua plus guidelist : Appropriate technology for water supply and sanitation in the developing countries</b> Bayer, Paul (1988)	8
<b>Basic water treatment for application world-wide</b> Smethurst, George (1988)	97
<b>Community health and sanitation</b> Kerr, Charles (Ed.) (1990)	59

	<b>no.</b>
<b>Community water development</b> Kerr, Charles (1989)	60
<b>Community piped water supply systems in developing countries : a planning manual</b> Okun, A. Daniel ; Ernst, Walter R. (1987)	78
<b>Community self-improvements in water supply and sanitation: a training and reference manual for community health workers, community development workers and other community-based workers</b> Smet, Jo; Visscher, Jan Teun; Ginhoven, Dick van; Ankersmit, Willem (1988)	96
<b>Community water supply: the handpump option</b> Arlosoroff, Saul; Tschannerl, Gerhard; Grey, David; Journey, William; Karp, Andrew; Langenegger, Otto; Roche, Robert (1987)	4
<b>Disinfection of rural and small-community water supplies: a manual for design and operation</b> Water Research Centre (WRc) (1989)	106
<b>Drinking water installations and drainage requirements in Nepal : residential and non-residential</b> Bachman, Andreas ; Waldvogel, Heinz (1988)	6
<b>Environmental health engineering in the tropics: an introductory text</b> Cairncross, Sandy; Fcachem, Richard G. (1983)	17
<b>Ferrocement water tank</b> Sharma, P.C. ; Gopalaratnam, V.S. (1980)	92
<b>From ferro to bamboo: a case study and technical manual to a rain water catchment tank project</b> Kaufman, M. (1983)	58
<b>Ground water : hydrogeology, ground water survey and pumpingtests, rural water supply and irrigation systems</b> Ragunath, H.M. (1987)	87
<b>Groundwater and wells</b> Driscoll, Fletcher G. (1986)	26

	<b>no.</b>
<b>Groundwater dams for small-scale water supply</b> Nilsson, Ake (1988)	74
<b>Guidelines for drinking water quality; Vol. 3: Drinking water quality control in small-community supplies</b> WHO (1984-1985)	117
<b>Hand dug wells and their construction</b> Watt, S.B.; Wood, W.E. (1977)	108
<b>Handpumps: issues and concepts in rural water supply programmes</b> IRC; IDRC (1988)	50
<b>Health and irrigation: incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Horizontal-flow roughing filtration (HRF): a design, construction and operation manual</b> Wegelin, Martin (1986)	109
<b>Hydraulic rams: consumers guide</b> Jong, P. de (1988)	62
<b>Maintenance systems for rural water supplies</b> Bastemeyer, Teun; Visscher, Jan Teun (1987)	7
<b>Manual for rural water supply</b> Helvetas; SKAT (1985)	95
<b>Operation and control of water treatment processes</b> Cox, C.R. (1964)	22
<b>Planning of intake structures</b> Lauterjung, Helmut; Schmidt, Gangolf (1989)	63
<b>Rain and stormwater harvesting in rural areas: a report by the United Nations Environment Programme</b> UNEP (1983)	102

	<b>no.</b>
<b>Rainwater harvesting : the collection of rainfall and runoff in rural areas</b> Pacey, Arnold; Cullis, Adrian (1986)	80
<b>Renewable energy sources for rural water supply</b> Hofkes, E.H.; Visscher, J.T. (1986)	45
<b>Rural water supplies and sanitation</b> Morgan, Peter (1990)	72
<b>Simple methods for the treatment of drinking water</b> Hcber, Gabrielle (1985)	41
<b>Simplified procedures for water examination: including supplement on instrumental methods</b> American Water Works Association (1978)	3
<b>Slow sand filtration for community water supply: planning, design, construction, operation and maintenance</b> Visscher, J.T.; Paramasivam, R.; Raman, A.; Heijnen, H.A. (1987)	104
<b>Small community water supplies: technology of small water supply systems in developing countries</b> Hofkes E.H. (ed.) (1983)	44
<b>Small projects training manual: Vol. II : water supply</b> Guoth-Gumberger, M. and Gumberger, R. (1987)	39
<b>Technology for water supply and sanitation in developing countries: report of a WHO Study Group</b> WHO Study Group on Technology for Water Supply and Sanitation in Developing Countries (1987)	122
<b>Water distribution systems</b> Brandon, Thomas W. (1984)	13
<b>Water supply and sanitation in developing countries</b> Dangerfield, Bernard J. (1983)	24
<b>Water, wastes and health in hot climates</b> Feachem, Richard G.; McGarry, Michael G.; Mara, D. Duncan (1980)	30

<b>VII SANITATION TECHNOLOGIES</b>	<b>no.</b>
<b>A guide to the development of on-site sanitation</b> Franceys, Richard; Pickford, John; Reed, Bob (1991)	33
<b>Anaerobic digestion: principles and practices for biogas systems</b> Gunnerson, Charles G.; Stuckey, David C. (1986)	37
<b>Appropriate building materials</b> Stulz, R.; Mukcrji, K. (1988)	100
<b>Appropriate sanitation alternatives: a technical and economic appraisal</b> Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1982)	56
<b>Aqua plus guidelist: Appropriate technology for water supply and sanitation in the developing countries</b> Bayer, Paul (1988)	8
<b>Aquaculture: a component of low-cost sanitation technology</b> Edwards, Peter (1985)	28
<b>Biogas technology in developing countries: an overview of perspectives</b> Tam, D.M.; Thanh, N.C. (1982)	101
<b>Community health and sanitation</b> Kerr, Charles (Ed.) 1990	59
<b>Community self-improvements in water supply and sanitation: a training and reference manual for community health workers, community development workers and othercommunity-based workers</b> Smct, Jo; Visscher, Jan Teun; Ginhoven, Dick van; Ankersmit, Willem (1988)	96
<b>Composting of domestic refuse</b> Rabbani, K.R.; Jindal, R.; Kubota H.; Obeng, L. (1983)	86
<b>Environmental health engineering in the tropics: an introductory text</b> Cairncross, Sandy; Feachem, Richard G. (1983)	17
<b>Guide to simple sanitary measures for the control of enteric diseases</b> Rajagopalan, S; Shiffman, M.A. (1974)	88

	<b>no.</b>
<b>Guidelines for the safe use of wastewater and excreta in agriculture and aquaculture: measures for public health protection</b> Mara, Duncan; Cairncross, Sandy (1989)	70
<b>Health and irrigation: incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Low cost sewerage options study</b> Australian Water Resources Council (1989)	103
<b>Managing solid wastes in developing countries</b> Holmes, John R. (1984)	46
<b>Manual on the design, construction and maintenance of low-cost pour-flush waterseal latrines in India</b> Roy, A.K.; Chatterjee, P.K.; Gupta, K.N.; Khare, S.T.; Rau, B.B.; Singh, R.S. (1984)	91
<b>Night-soil composting</b> Shuval, Hillel I.; Gunnerson, Charles G.; Julius, DeAnne S. (1981)	93
<b>Rural water supplies and sanitation</b> Morgan, Peter (1990)	72
<b>Sanitation without water</b> Winblad, Uno; Kilama, Wen (1985)	129
<b>Septic tank and septic systems</b> Polprasert, Chongrak; Rajput, Vijay S. (1982)	84
<b>Septic tanks and aqua-privies from ferrocement</b> Watt, S.B. (1984)	107
<b>Sewage treatment in hot climates</b> Mara, Duncan (1976)	68
<b>Sewerage and sewage treatment: international practice</b> Escritt, Leonard B. ; Haworth, William D. (1984)	29

	<b>no.</b>
<b>Small projects training manual: Vol. III: sanitation.</b> Guoth-Gumberger, M, and Gumberger, R. (1987)	39
<b>Small scale sanitation</b> Cairncross, Sandy (1988)	18
<b>The design of small bore sewer systems</b> Otis, Richard J.; Mara, D. Duncan (1985)	79
<b>Waste water technology : origin, collection, treatment and analysis of waste water</b> Fresenius, W.; Schneider, W.; Boehnke, B.; Poeppinghaus, K. (1989)	34
<b>Wastewater stabilization ponds: principles of planning and practice</b> WHO. Regional Office for the Eastern Mediterranean (Alexandria) (1987)	124
<b>Water supply and sanitation in developing countries</b> Dangerfield, Bernard J. (1983)	24
<b>Water, wastes and health in hot climates</b> Feachem, Richard G.; McGarry, Michael G.; Mara, D. Duncan (1980)	30
 <b>VIII ENVIRONMENT CONCERNS</b>	
<b>Adding guinea worm control components: guidelines for water and sanitation projects</b> Prins, Agma; Yacoob, May (1988)	85
<b>Design and construction of small earth dams</b> Nelson, K.D. (1985)	73
<b>Drinking water source protection: an overview of problems, causes, experiences and needs</b> Lee, Michael ; Bastemcijcr, Teun (1991)	66
<b>Engineering against schistosomiasis / bilharzia: guidelines towards control of the disease</b> Pike, E.G. (1987)	83



	<b>no.</b>
<b>Erosion control in the tropics</b> AGROMISA (1987)	2
<b>Groundwater dams for small-scale water supply</b> Nilsson, Ake (1988)	74
<b>Health and irrigation: Incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation</b> Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)	77
<b>Housing and health: an agenda for action</b> WHO/EHE/RUD	121
<b>Rain and stormwater harvesting in rural areas: a report by the United Nations Environment Programme</b> UNEP (1983)	102
<b>Vanishing land and water: soil and water conservation in dry lands</b> Chleq, Jean-Louis; Dupriez, Hugues (1989)	21
<b>Water resources: planning and management</b> Helweg, Otto J. (1985)	42

## **PART C: LITERATURE RECOMMENDED FOR FIELD STAFF AND COMMUNITY BASED WORKERS**

### **(PROJECT LEVEL STAFF)**

no. refers  
to description  
in section II

#### **I POLICIES, STRATEGIES, PLANNING AND EVALUATION**

**Minimum evaluation procedure (MEP) for water supply and  
sanitation projects**  
WHO (1983) 114

**Piped supplies for small communities: applying the partnership approach**  
IRC (1990) 51

#### **II HEALTH AND HYGIENE**

**Environmental health engineering in the tropics: an introductory text**  
Cairncross, Sandy; Feachem, Richard G. (1983) 17

**Small scale sanitation**  
Cairncross, Sandy (1988) 18

**Where there is no doctor: a village health care handbook**  
Werner, David (1988) 110

#### **III SOCIETY/COMMUNITY EDUCATION AND PARTICIPATION**

**Community self-improvements in water supply and sanitation:  
a training and reference manual for community health workers, community  
development workers and other community-based workers**  
Smet, Jo; Visscher, Jan Teun; Ginhoven, Dick van;  
Ankersmit, Willem (1988) 96

	<b>no.</b>
<b>Education for health: a manual on health education in primary health care</b> WHO (1988)	123
<b>Environmental health engineering in the tropics: an introductory text</b> Cairncross, Sandy; Feachem, Richard G. (1983)	17
<b>Facts for life: a communication challenge</b> Adamson, Peter (1989)	1
<b>Handpumps: issues and concepts in rural water supply programmes</b> IRC; IDRC (1988)	50
<b>Making the links: guidelines for hygiene education in community water supply and sanitation; with particular emphasis on public standpost water supplies</b> Boot, Marieke T. (1984)	10
<b>Participatory monitoring and evaluation: handbook for training field workers</b> Stephens, Alexandra; Ill. Putman, Kees (1988)	97
<b>Piped supplies for small communities: applying the partnership approach</b> IRC (1991)	51
 <b>IV ORGANIZATION, MANAGEMENT AND FINANCE</b>	
<b>Manual for rural water supply</b> Helvetas; SKAT (1985)	95
<b>Piped supplies for small communities: applying the partnership approach</b> IRC (1991)	51

	<b>no.</b>
<b>V HUMAN RESOURCES DEVELOPMENT AND INFORMATION EXCHANGE</b>	
<b>Participatory monitoring and evaluation: handbook for training field workers</b>	
Stephens, Alexandra; Ill. Putman, Kees (1988)	98
<b>Training skills for supervisors</b>	
Flanagan, Donna R. (1987)	32
<b>VI WATER SUPPLY TECHNOLOGIES</b>	<b>no.</b>
<b>A handbook of gravity-flow water systems for small communities</b>	
Jordan, Thomas D. (1984)	54
<b>Community self-improvements in water supply and sanitation: a training and reference manual for community health workers, community development workers and other community-based workers</b>	
Smet, Jo; Visscher, Jan Teun; Ginhoven, Dick van; Ankersmit, Willem (1988)	96
<b>Drinking water installations and drainage requirements in Nepal : residential and non-residential</b>	
Bachman, Andreas; Waldvogel, Heinz (1988)	6
<b>Environmental health engineering in the tropics: an introductory text</b>	
Cairncross, Sandy; Feachem, Richard G. (1983)	17
<b>Manual for rural water supply</b>	
Helvetas; SKAT (1985)	95
<b>Rural water supplies and sanitation</b>	
Morgan, Peter (1990)	72
<b>Simple methods for the treatment of drinking water</b>	
Heber, Gabrielle (1985)	41
<b>Small community water supplies: technology of small water supply systems in developing countries</b>	
Hofkes E.H. (ed.) (1983)	44

no.

## VII SANITATION TECHNOLOGIES

- Community self-improvements in water supply and sanitation:  
a training and reference manual for community health workers, community  
development workers and other community-based workers**  
Smet, Jo; Visscher, Jan Teun; Ginhoven, Dick van; Ankersmit, Willem (1988) 96
- Environmental health engineering in the tropics: an introductory text**  
Cairncross, Sandy; Feachem, Richard G. (1983) 17  
rural water supplies and sanitation
- Rural water supplies and sanitation**  
Morgan, Peter (1990) 72
- Small scale sanitation**  
Cairncross, Sandy (1988) 18

## VIII ENVIRONMENTAL CONCERNS

- Housing and health: an agenda for action**  
WHO/EHE/RUD 121
- Vanishing land and water: soil and water conservation in dry lands**  
Chleq, Jean-Louis; Dupriez, Hugues (1989) 21



## *SECTION 2: ANNOTATED BIBLIOGRAPHY*

1. Adamson, Peter (1989)  
**Facts for life: a communication challenge**  
New York: Facts for Life Unit, UNICEF. xiv, 78 p.  
Also available in French, Portuguese and Arabic  
Price: US \$ 1.00 from UNICEF/DIPA

Aims to promote the communication of today's scientific consensus on practical, low-cost, family-based ways of protecting children's lives and health. With emphasis on the developing world.

2. AGROMISA (1987)  
**Erosion control in the tropics**  
Wageningen: Agromisa. 73 p.  
Price: Dfl 7.50 (TOOL), Satis Tokens 5.00

Theoretical introduction followed by several practical measures to control erosion.

3. American Water Works Association (1978)  
**Simplified procedures for water examination: including supplement on instrumental methods**  
Rev. 1975, supplement added 1978  
Denver: American Water Works Association. IV, 194 p.  
(AWWA Manual; No. M12)  
ISBN 0-89867-070-5  
Price: members US \$ 26.50, non-members US \$ 33.00, Sfr 70.00 (SKAT),  
Satis Tokens 63.00, also available in French from IRC US \$ 15.00

Manual of simplified procedures for water and waste water examination. Practical guidance on selected techniques for water and waste water analysis; basics of chemistry and microbiology of water and waste water.

4. Arlosoroff, Saul; Tschannerl, Gerhard; Grey, David; Journey, William; Karp, Andrew; Langenegger, Otto; Roche, Robert (1987)

**Community water supply: the handpump option**

Washington: World Bank. 213 p.

ISBN 0-8213-0850-5

Price: US \$ 9.95 (WB), Sfr 29.50 (SKAT), Dfl 25.83 (TOOL),

Satis Tokens 6.50

Summary of findings first phase (1981-1986) of UNDP/World Bank Project INT/81/026 - Laboratory and Field Testing and Technological Development of Community Water Supply Handpumps. Guidelines for selection of water supply systems and planning of handpump projects, emphasis on community-based maintenance. Analysis and thorough discussion of critical elements: aquifer, well, handpump technology, maintenance systems, etc. Pump selection guide for 42 out of 70 models evaluated.

5. Austriaco, Lilia; Stephen Parker (1991)

**Organizing documentation services for the water supply and sanitation sector, volume 1**

The Hague, IRC International Water and Sanitation Centre / UNDP-World Bank Water and Sanitation Program. 84 p.

Price: US \$ 7.50 (IRC)

Clearly written practical guide for managers confronted with the need to organize their documentation. Gives details on establishment and procedures for setting up and maintaining an information and documentation centre. Guidance on type and development of information extension services.

6. Bachman, Andreas; Waldvogel, Heinz (1988)

**Drinking water installations and drainage requirements in Nepal: residential and non-residential, 4th ed.**

St. Gallen : Swiss Centre for Appropriate Technology (SKAT). 180 p.

ISBN 3-908001-12-9

Price: Sfr 20.00 (SKAT), Satis Tokens 18.00

These three part guidclines deal with details on plumbing and pipe fitting for residential and non-residential drinking water installations, both direct mains connection and distribution from water tanks. It explains drainage requirements, including the "stack" system and an updated version of divided drainage of soiled and waste waters. Lastly it contains details of individual apparatus, tables, valucs, ISO-Norm symbols,etc. The text which has been written in precise and clear language, is well supported by (design) drawings.



7. **Bastemeyer, Teun; Visscher, Jan Teun (1987)**  
**Maintenance systems for rural water supplies**  
The Hague: IRC International Water and Sanitation Centre. 43 p.  
(Occasional Paper Series IRC; No. 8)  
Price: US \$ 7.50

Review of existing experience and literature on maintenance of rural water supply systems. Describes current thinking on this key issue which so far has been the major bottleneck for long-term water supply. Discusses factors affecting maintenance and key aspects to develop suitable maintenance systems. Provides a checklist for project preparation assessment.

8. **Bayer, Paul (1988)**  
**Aqua plus guidelist**  
**Appropriate technology for water supply and sanitation in the developing countries, Rev. ed.**  
Copenhagen: Unicef Supply Division. xv, 964 p.  
Price: US \$ 110, available through IRC

Primarily intended for UNICEF field staff to help determine the specifications for particular supplies and equipment for use in water and sanitation projects. Planners and managers responsible for selection of equipment and the description of the supply will find the Aqua Plus Guidelist invaluable. Specifications selected from over 500 product catalogues, manuals and other documentation

9. **Benenson, Abram S. (1990)**  
**Control of communicable diseases in man: an official report of the American Public Health Association. 15th ed.**  
Washington: American Public Health Association (APHA). xxvii, 532 p.  
Stock no. 580, Also available in Spanish.  
ISBN 0-87553-130-X  
Price: US \$ 12.00

Produced by APHA with the collaboration of the World Health Organization (WHO) and the Pan American Health Association (PAHO). This book is designed as a handy reference manual in pocketbook form for practitioners in medicine and public health. Covers over 200 communicable diseases.

10. **Boot, Marieke T. (1984)**  
**Making the links: guidelines for hygiene education in community water supply and sanitation; with particular emphasis on public standpost water supplies**  
The Hague: IRC International Water and Sanitation Centre. 82 p.  
(Occasional Paper Series IRC; No. 5)  
Price: US \$ 7.50

Guidelines for integration of a health education component in water supply and sanitation projects. Discusses behavioural change and adoption of hygiene and water use practices. Role of hygiene in the prevention of diseases related to deficiencies in water supply and sanitation. Guidelines for preparation and use of audio-visual aids in hygiene education.

11. **Boot, Marieke (1987)**  
**Evaluating water supply and sanitation projects: training course**  
The Hague: IRC International Water and Sanitation Centre. 2 vol.  
(94 p.; 110 p.) (Training Series IRC; No. 2)  
Price: US \$ 15.00

These modules were prepared and tested in collaboration with UNICEF/Nigeria to serve as a guide for one-week course programmes in developing countries to train project staff in evaluation techniques. This practical course material contains training modules (vol.1) and a course moderator's guide (vol.2).

12. **Bourne, Peter G. (1984)**  
**Water and sanitation: economic and sociological perspectives**  
London: Academic Press Inc. VIII, 283 p.  
ISBN 0-12-119580-5  
Price: US £ 54.00

Compilation of contributions from selected authors. Presents policies, approaches, economic, social, and technological perspectives of water and sanitation development. Discusses relationship of water, sanitation, health and socio-economic development; the need and benefits of community participation; low-cost appropriate technologies; health aspects; water resources assessment; financing of water and sanitation development, pricing and revenue collection policies. Training and manpower development strategies.

13. Brandon, Thomas W. (1984)  
**Water distribution systems**  
London: Institution of Water and Environmental Management (IWEM) xiv, 450 p. (Water Practice Manuals; No. 4)  
ISBN 0-901427-13-6  
Price: £ 12.00

Excellent reference book on all aspects of water distribution. An overview is given of engineering, management, organization and operational practices affecting distribution. Useful chapters on design philosophy and principles, network analysis, maintenance of watermains, leakage detection and waste prevention. Very appropriate for those working in urban water supply.

14. Briscoe, John; De Ferranti, David (1988)  
**Water for rural communities: helping people help themselves**  
Washington: World Bank, iv, 32 p. Stock no. 10964.  
ISBN 0-8213-0964-1  
Price: US \$ 6.95

Argues that the beneficiaries themselves have the most important role to play in water supply and sanitation programmes. The implications of this principle for policy and planning are examined.

15. Burgers, Lizette; Boot, Marieke; Wijk-Sijbesma, Christine van (1988)  
**Hygiene education in water supply and sanitation programmes: literature review with selected and annotated bibliography**  
The Hague: IRC International Water and Sanitation Centre  
(Technical Paper Series IRC; No. 27) 144 p.  
ISBN 90-6687-012-51  
Price: US \$ 27.00

This extensive literature study provides an overview of current knowledge and experience in hygiene education in community water supply and sanitation projects. Covers importance and purpose of hygiene education, organization and cost of programme, manpower and training required, use of audio-visual tools and school hygiene education.

16. Cairncross, Sandy; Carruthers, Ian; Curtis, Donald; Feachem, Richard; Bradley, David; Baldwin, George (1980)  
**Evaluation for village water supply planning**  
London: John Wiley & Sons. XVIII, 179 p.  
ISBN 0-471-27662-6  
Price: £10.90 (Wilcy), Sfr 24.00 (SKAT), Satis Tokens 21.50  
Paperback version  
The Hague: IRC International Water and Sanitation Centre  
(Technical Paper Series IRC; No. 15) 179 p.  
Price: US \$ 22.00

Very comprehensive handbook covering a large variety of aspects related to evaluation and planning of rural water supply projects. Scope and purpose of evaluation, criteria for making assessments, methodology of evaluation, appraisal of level of service, design criteria, and costs. A must for planners and programme staff.

17. Cairncross, Sandy; Feachem, Richard G. (1983)  
**Environmental health engineering in the tropics: an introductory text**  
Chichester: John Wiley & Sons. xiii, 283 p.  
ISBN 0-471-90001-X  
Price: Sfr 35.00 (SKAT)

Excellent handbook for fieldstaff dealing extensively with the environmental interventions necessary to curb the spread of communicable diseases. Covers health and pollution as well as many aspects of low-cost water supply and sanitation.

18. Cairncross, Sandy (1988)  
**Small scale sanitation, 3rd ed.**  
London: Ross Institute of Tropical Hygiene, London School of Hygiene and Tropical Medicine. x, 60 p. (Ross Institute of Tropical Hygiene Bulletin; No. 8)  
ISBN 0-900995-08-4  
Price: £ 3.00

An overview of a range of simple sanitation technologies. Covers health aspects and social aspects, sanitation options, selection and construction. The document is written in a clear style and can be used by non-professionals as well.

19. Carefoot, Neil; Gibson, Howard (1984)  
**Human resources development handbook: guidelines for ministries & agencies responsible for water supply and sanitation**  
Geneva: World Health Organization, Division of Environmental Health.  
228 p.  
WHO/CWS/ETS 84.3 Only available from WHO.

Guide expands on three dimensional human resources development (HRD) process comprising planning, training and management, presented in Basic Strategy Document (WHO, 1982). Discusses: approaches for strengthening HRD to senior managers and training managers; 11-step HRD planning model for planners and senior managers preparing a manpower development plan; design of training and development plans and programmes; integration of planning, training and management of HRD by senior operational personnel and training managers.

20. Chandler, Charles G. (1985)  
**Achieving success in community water supply and sanitation projects**  
New Delhi: World Health Organization, Regional Office for South-East Asia. 67 p. (SEARO Regional Health Papers; No. 9)  
Order No. 1580009  
ISBN 92-9022-178-X  
Price: Sfr. 7.00, US \$ 5.60

This publication sets forth a procedure needed to incorporate software, such as community education and participation, human resources development and institutional development in water supply and sanitation projects. The six-step procedure can be used for new projects as well as for the rehabilitation of existing facilities. The procedural guidelines are developed as the result of case studies. Emphasis is placed primarily on projects designed to service rural and urban underserved areas of developing countries.

21. Chleq, Jean-Louis; Dupriez, Hugues (1988)  
**Vanishing land and water: soil and water conservation in dry lands**  
Nivelles: Terres et Vie. 117 p.  
Price: US \$ 12, Bfr 430 (ATOL), Satis Tokens 13.50

Detailed descriptions and diagrams for the construction of terraces, channels, ditches, small dams and gabions. Presents also the construction of wells, boreholes and water lifting devices that traditionally have been used in arid regions.

22. Cox, C.R. (1964)  
**Operation and control of water treatment processes**  
Geneva: World Health Organization. 390 p.  
(Monograph Series; No. 49)  
Price: Sfr 52.00

Textbook giving practical guidelines for operation and control of water treatment plant; for practising design engineers and plant superintendents. Comprehensive information on operating requirements of various water treatment unit processes; check-lists and data for monitoring of unit processes, key variables, and use of control equipment.

23. Cullivan, Donald, et al. (1988)  
**Guidelines for institutional assessment: water and wastewater institutions**  
Arlington, VA: Water and Sanitation for Health Project.  
iii, 74 p. (WASH Technical Report; No. 37). Also available in French, Spanish, and Arabic.  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

This report consists of set of procedures to diagnose institutional deficiencies in water and wastewater institutions. These procedures are based on pre-identified institutional performance categories: organization autonomy, leadership, management and administration, commercial orientation, consumer orientation, technical capability, developing and maintaining staff, organizational culture, and interactions with key external institutions.

24. Dangerfield, Bernard J. (1983)  
**Water supply and sanitation in developing countries**  
London: Institution of Water and Environmental Management (IWEM) xvi, 413 p. (Water Practice Manuals; No. 3)  
ISBN 0-901427-12-8  
Price: £ 23.00

Of interest to those with technical and administrative responsibility and working with limited resources. Sections included are: economic and social conditions; infections related to water and excreta; the role of development banks in development funding; population and water needs; water resources; water quality and treatment; urban water supply; urban sanitation and surface water drainage; rural water supply and sanitation; operation and maintenance; international requirements; education and training.

25. Donnelly-Roark, Paula (1987)  
**New participatory frameworks for the design and management of sustainable water supply and sanitation projects**  
Arlington, VA: Water and Sanitation for Health Project.  
viii, 30 p. (WASH Technical Report; No. 52) (Jointly published with PROWESS -- Promotion of the Role of Women in Water and Environmental Sanitation Services, U.N. Development Programme, as PROWESS Report No. 50). Also available in French and Spanish.  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

This concept paper is intended for engineers, project officers, and water and sanitation technicians working in the field who understand the importance of participation but do not know how to promote it. The paper provides the information necessary to develop an operational work plan for implementing participation.

26. Driscoll, Fletcher G. (1986)  
**Groundwater and wells, 2nd ed.**  
St. Paul: Johnson Division. xv, 1089 p.  
ISBN 0-9616456-0-1  
Price: £ 80.00

General background document written for design engineers, water well contractors, governmental officials involved in well projects, and educators and students interested in the practical elements of hydrology. Provides knowledge necessary to locate, extract, treat and protect groundwater. Large number of technical words defined in glossary.

27. Edwards, Daniel B. (1988)  
**Managing institutional development projects: water and sanitation sector**  
Arlington: Water and Sanitation for Health Project (WASH). 64p. (WASH Technical Report; No. 49.)  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

This document captures lessons learnt by WASH in designing and implementing institutional development projects. The chief target of such projects is the institution itself (e.g. a water authority), and the clients of the institution (e.g., a community receiving water service) are a secondary target. The element of successful institutional development projects in the

water supply and sanitation sector are explored in some detail. The central theme of the discussion is that institutional development projects, being buffeted by many external factors, are difficult to manage and require great patience, adaptability, and flexibility.

28. Edwards, Peter (1985)  
**Aquaculture : a component of low-cost sanitation technology** Washington: World Bank. 62 p. (World Bank Technical Paper; No. 36) (Integrated resource recovery series. UNDP Project Management Report; No. 3). Stock No. 10527  
ISBN 0-8213-0527-1  
ISSN 0253-7494  
Price: US \$ 6.95

This paper discusses all phases of aquaculture, including commercial viability, sanitary and biological considerations, public health, financial/economic and sociological aspects. Current studies are detailed and options are discussed for their potential applicability to developing countries, considering requirements for capital and labour skills as well as physical needs such as land.

29. Escritt, Leonard B.; Haworth, William D. (1984)  
**Sewerage and sewage treatment: international practice**  
Chichester: John Wiley & Sons. xiii, 554 p. (Wiley-inter-science)  
ISBN 0-471-10339-X  
Price: £ 67.95

This book describes the theory and practice of sewerage and sewage treatment, in the light of recent research and experience in the design, construction and maintenance of works. An excellent text book covering all relevant aspects of "traditional" sewerage and sewage treatment.

30. Feachem, Richard G.; McGarry, Michael G.; Mara, D. Duncan (1980)  
**Water, wastes and health in hot climates**  
Chichester: John Wiley & Sons, XVI, 399 p.  
ISBN 0-471-99410-3  
Price: £ 63.95

Offers extensive information on relationship between water and sanitation improvement, and the control of water-related infectious diseases. Classification of these diseases in terms of the engineering measures that can be taken to reduce their incidence. Covers water use, and the principal



factors affecting the required level of water supply; economics of community water supplies; benefits and cost-effectiveness. Provides basic information on protection of water source and treatment, various sanitation systems, water stabilization ponds, aerated lagoons, and solid waste disposal.

31. Feachem, Richard G.; Bradley, David J.; Garelick, Hemda; Mara, D. Duncan (1983)  
**Sanitation and disease: health aspects of excreta and wastewater management**

Chichester: Wiley & Sons. xxviii, 501 p. (World Bank Studies in Water Supply and Sanitation; No. 3). Stock No. 30558  
ISBN 0-0471-90094-X  
Price: £ 81,50, US \$ 41.95 (WB)

The first part of this standard work is a distillation of available knowledge about excreta, night soil, and sewage and their effects on health; the second describes the environmental properties of a specific excreted pathogen or group of excreted pathogens and the epidemiology and control of the infections these pathogens cause. Occurrence and survival of the pathogen in the environment and efficacy of various waste treatment processes in reducing or eliminating the pathogen are discussed.

32. Flanagan, Donna R. (1987)  
**Training skills for supervisors**  
The Hague: IRC International Water and Sanitation Centre. xii, 89 p.  
(Training Series IRC; No. 4)  
Price: US \$ 7.50

Manual intended to train supervisors with limited training experience, in the attitudes, knowledge and skills needed to effectively improve the performance of field staff. Techniques in technical training that are *immediately* useful to supervisors have been stressed. Extensive fieldtesting has shown that through this manual inexperienced trainers can give classroom or on-the-job training to their staff with practical and performance-oriented instruction. Contains glossary to help with translations into local languages. So far, it has been translated into Thai, Arabic, Bahasa Indonesia, Amharic and Sinhalese.

33. Franceys, Richard; Pickford, John; Reed, Bob (1991)  
**A guide to the development of on-site sanitation**  
Geneva, World Health Organization, 219 p.

A guide published by WHO as the successor to the renowned book on excreta disposal by Wagner and Lanoix (WHO monograph 39, 1957). Basic textbook covering all aspects of on-site sanitation and reflecting the experiences in sanitation gained during the Decade. Deals with planning of sanitation options and human resources needed, design and construction of latrines and septic tanks, operation and maintenance of facilities, waste recovery and sullage management.

34. Fresenius, W.; Schneider, W.; Boehnke, B.; Poppinghaus, K. (1989)  
**Wastewater technology: origin, collection, treatment and analysis of waste water**  
Berlin: Springer-Verlag. 1160 p.  
ISBN 3-540-17450-8; ISBN 0-387-17450-8

Presents information on specific wastewater problems as they occur in municipal and industrial areas in developing countries. Discusses general treatment procedures and specific requirements for the treatment and disposal of a large number of industrial wastes. Provides ample references on sampling and laboratory analysis. Publication commissioned by GATE/GTZ.

35. Goethert, Reinhard; Hamdi, Nabeel (1988)  
**Making microplans: a community-based process in programming and development**  
London: Intermediate Technology Publications. 85, 166 p.  
ISBN 1-85339-085-2  
Price: £ 13.00

Microplanning is a community-based process which enables local people to prepare and implement programmes for settlement upgrading. Local participants contribute to both the content and structure of programmes. The methods are illustrated by examples from Chile and Sri Lanka, and a guideline is included for readers to carry out their own workshops.

36. GATE/GTZ (1989)  
**Community participation and hygiene education in water supply and sanitation (CPHE)**  
Eschborn : Deutsche Gesellschaft für Technische Zusammenarbeit.  
224 p. draft version, special issue combining papers no. 1, 2, 3, 4, and 5 in the CPHE series into one document.  
Contact GATE/GTZ, Division 414 (water) for availability.

The series of community participation and hygiene education presently comprises five papers:

1. **Sustainability and effective use.**  
**The case for community participation and hygiene education in water supply and sanitation.**
2. **Practical guidelines for integrating CPHE into water and sanitation projects.**
3. **Tools for integrating CPHE into water and sanitation projects.**
4. **Indicators for success.**  
**CPHE in water supply and sanitation: how to measure progress and results?**
5. **Strategy development for CPHE.**

The material contained in this publication provides excellent and comprehensive reading on all the issues that really matter when trying to enhance sustainability through community management. It can easily be used as subject matter for work shops at all levels of a (sub-) national water supply and sanitation programme.

37. Gunnerson, Charles G.; Stuckey, David C. (1986)  
**Anaerobic digestion: principles and practices for biogas systems**  
Washington: World Bank. xv, 174 p. (World Bank Technical Paper; No. 49)  
Stock No. 10752. (UNDP Project Management Report; No. 5) (Integrated Resource Recovery Series; No. 5)  
ISBN 0-8213-0752-5  
Price: US \$ 10.95

Report summarizes current and potential status and practice of anaerobic digestion in developing countries and provides an overview of the subject plus practical data for building an anaerobic digester. Surveys existing systems and models in current use, and explains technical aspects of anaerobic digestion. Emphasis is placed on applying new engineering concepts to low-cost technologies, on energy, and on environmental and agricultural benefits.

38. Guinchat, Claire; Menou, Michel (1983)  
**General introduction to the techniques of information and documentation work**

Paris: Unesco XV, 340 p. Also available in French and Spanish. ISBN 92-3-101860-4 ; French edition ISBN 92-3-201860-8

Price: US \$ 30.50

Extensive technical manual dealing with all day-to-day activities relating to *information and documentation handling*. Covers all aspects of library management, information storage and retrieval systems, education and training, information science, national and international policies, standardization and compatibility.

39. Guoth-Gumberger, M; and Gumberger, R. (1987)  
**Small projects training manual**  
**Vol.I : administrative and community development. 269 p.**  
**Vol.II : water supply. 515 p.**  
**Vol.III: sanitation. 197 p.**

Khartoum : Sudan Council of Churches. Munubi Water and Sanitation Project

TME/ISN 3837//204.87 S

Price: DM 15,00/29,00/11,00 respectively, available from FAKT

A clearly written set of books which gives an overview of different aspects of administration, organization and implementation of water supply and sanitation projects. The detailed manuals are intended for small development projects with 20 to 40 staff members. The administrative and organizational structures described correspond to this project size. For each topic, basic and relevant information is selected, arranged and presented in such a way as to introduce a newcomer to the various issues involved . Also trained staff will find its detailed descriptions helpful. Next to providing guidance the book can be used to train secondary school leavers to become skilled technicians in water supply and sanitation work.

40. Harpham, Trudy; Lusty, Tim; Vaughan, Patrick (1988)  
**In the shadow of the city: Community health and the urban poor**  
Oxford: Oxford University Press. xviii, 256 p. (Oxford Medical Publications)  
ISBN 0-19-261698-6 (Paper cover), ISBN 0-19-2615912 (Hardback)  
Price: £ 5.00 (Paper cover, TALC), £ 15.00 (Hardback)

The first book on this important subject, "In the Shadow of the City" discusses contentious issues for all governmental and other aid agencies. International contributors discuss and debate the topic, and the coverage is wide including Asia, Africa and Latin America.

- 41 Heber, Gabrielle (1985)  
**Simple methods for the treatment of drinking water**  
Eschborn:GATE/Vieweg. 78 p.  
Price: Free of charge (GATE), £ 8.75 (ITP), Sfr 18.50 (SKAT), Satis  
Tokens 16.50

Shortage of clean drinking water is one of the reasons for disease and child mortality in Third World countries. The manual shows simple methods and equipment for the treatment of water and gives basic technical information.

42. Helweg, Otto J. (1985)  
**Water resources: planning and management**  
New York: John Wiley & Sons.  
ISBN 0-471-04770-8  
Price:

This book, primarily designed as a university text, introduces the major topics of water resources planning. It covers the basic concepts, descriptive framework, theory and history of planning, data management and physical data (including demographics), and the economic, historical, socio-political, and institutional elements behind the planning process. Each step is explained with reference to establishing goals and objectives, formulating alternatives, evaluating alternatives, communicating the planning study, plan implementation and post analysis.

43. Hey, G.J.; Meinardi C.R. (1991)  
**A groundwater primer, Expanded ed.**  
The Hague: IRC International Water and Sanitation Centre. 160 p.  
(Technical Paper Series; No. 21)  
Price: US \$ 15.00, Sfr 27.50 (SKAT), Dfl 36.90 (TOOL),  
Satis Tokens 25.00

An introduction for non-specialists on various aspects of groundwater, containing chapters on the place of groundwater in the hydrological cycle, the theory and appropriate terminology, the quality of groundwater, the various tests to be used in the field and laboratory investigation, and the development of groundwater resources.

44. Hofkes E.H. (ed.) (1983).  
**Small community water supplies: technology of small water supply systems in developing countries, Enlarged ed.**  
The Hague: International Reference Centre for Community Water Supply and Sanitation. 442 p.  
(Technical Paper Series IRC; No. 18).  
Also available in French.  
Price: US \$ 29.00 (IRC), Sfr 18.00 (SKAT), Dfl 60.00 (TOOL), Satis Tokens 28.50  
ISBN 99-6687-008-7  
Chichester: John Wiley & Sons.  
Price: (hardcover edition) £ 14.50

An excellent introduction and technical guideline on all aspects of low-cost community water supply, even for the non-technical reader. It has been proven to be useful in planning design and extension work. Includes: planning and management, water quantity and quality, water resources, rainwater harvesting, spring water, tapping, groundwater withdrawal, surface water intake, artificial recharge, pumps, water treatment, aeration, coagulation and flocculation, sedimentation, slow sand filtration, disinfection, water transmission and distribution.

45. Hofkes, E.H.; Visscher, J.T. (1986)  
**Renewable energy sources for rural water supply**  
The Hague: IRC International Water and Sanitation Centre. 184 p.  
(Technical Paper Series IRC; No. 23)  
ISBN 90-6687-007-9  
Price: US \$ 25.00 (IRC), Sfr 33.00 (SKAT), Satis Tokens 29.50

This book provides guidance in the systematic consideration of renewable energy sources and devices for rural water supply pumping. In part I, the various factors to be considered and the selection methodology to be followed in energy sources assessment and pumping system selection are discussed. In part II, state-of-the-art information on the technology of solar pumps, wind pumps, hydro-powered pumps, and pumping systems using biomass energy are presented.

46. Holmes, John R. (1984)  
**Managing solid wastes in developing countries**  
Chichester: John Wiley & Sons. xi 304 p.  
ISBN 0-471-90234-9  
Price: £ 63.95

Book addresses solid waste collection, disposal and reclamation problems in developing countries. It demonstrates that Western technology cannot be applied indiscriminately in these countries, but that allowance must be made for differing climatic and socio-economic conditions. Waste composition, refuse storage, collection, transport and disposal are discussed by eighteen experts. Composting of waste and the appropriate technology for recycling and recovering solid wastes are reviewed, and practical case studies are included covering work in Turkey, the Middle East and South East Asia.

47. IRC; UNESCO. *Division of the General Information Programme (1981) POETRI reference manual, Vol. 1.*  
The Hague: IRC International Water and Sanitation Centre. (Technical Paper Series IRC; No. 16). Also available in French.  
Price: US \$ 30.00

Covers the main steps involved in the planning, design, set-up and management of information support services for water supply and sanitation development in developing countries. The different parts of the Manual can be studied and used as individual guides. Mainly aimed at managers, information officers and documentalists. Also useful to government staff and others involved in the decision making for the set-up, staffing and financing of national information systems and services.

48. IRC (1988)  
**Info-Impact: report on a working meeting on information exchange for water supply and sanitation**  
The Hague, IRC International Water and Sanitation Centre  
37 p. 4 annexes.  
Price: US \$ 7.50

Describes the Framework for Technical Information Exchange (TIE) as developed in the Info-Impact working meetings, through its four main elements: assessment of needs and resources, product development, capacity building, and promotion. Indicates need for phased approach in information system development at country level and notes that sustainability of the information system can only be maintained in the long term if the benefits and receipts accruing from the information services provided are adequate enough to pay for the costs involved in maintaining the system. Contains case studies on information development projects in 7 countries in Africa and Asia.

49. IRC (1990)

**Inventory of selected training materials for water supply and sanitation**

The Hague, IRC International Water and Sanitation Centre / UNDP/World Bank Water and Sanitation Program, 143 p.

Price: US \$ 7.50 (IRC)

The inventory lists materials in English, French and Spanish that in themselves are *comprehensive and complete* training courses, or with minor adaptation can be made into training material to train sector staff. Includes some background materials on didactic principles and course management. Materials listed are suitable to organise workshops, short courses and distance education for all possible levels of sector staff. Does not include teaching material or textbooks used by universities or training institutes.

50. IRC; IDRC (1988)

**Handpumps: issues and concepts in rural water supply programmes**

The Hague: IRC International Water and Sanitation Centre. 174 p.

(Technical Paper Series IRC; No. 25)

ISBN 90-6687-010-9

Price: US \$ 24.00 (IRC), Dfl 48.00 (TOOL), Satis Tokens 33.00

The monograph concerns hand pumps and water supply programmes based on this technology for rural communities. Discussion of the technical aspects include appropriate application of the five principal types of hand pumps and the latest advances in design and manufacture with special emphasis on plastic. Specific attention is given to local maintenance, manufacture and the importance of quality control. The technical issues are considered in relation to sustainability. The key factor is seen as community involvement in all project phases. Various ways of organizing and funding maintenance of hand pump water supply systems are discussed.

51. IRC (1991)

**Piped supplies for small communities: applying the partnership approach**

The Hague: IRC International Water and Sanitation Centre.

230 p. Price: US \$ 25.00

Concise overview of the state of the art in piped supplies for small communities, with a strong emphasis on software and a community-oriented approach rather than technical aspects.



Emphasizes the " partnership approach" where responsibility for planning, preparing, implementing, operating and supporting the project is shared between agency and user community. The comprehensive text integrates activity supportive subjects like hygiene education or women involvement - by phase - in the project cycle, rather than dealing with these subjects separately.

52. Johnson, Ronald W. (1988)

**Guidelines for cost management in water and sewerage institutions**

Arlington, VA: Water and Sanitation for Health Project.

ii, 33 p. (WASH Technical Report; No. 54)

Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

Because the demand for safe and reliable drinking water is far outstripping the currently available financial and human resources to meet the demand, it is imperative that resources for water supply be used as effectively as possible. These guidelines outline a performance management program aimed at improving the cost-effectiveness of water and sanitation institutions.

53. Johnson, Sally S. (1988)

**Guidelines for conducting a financial management assessment of water authorities**

Arlington, VA: Water and Sanitation for Health Project.

ii, 47 p. (WASH Technical Report; No. 53)

Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

These guidelines describe the technique used to determine an individual water authority's ability to perform its financial management functions effectively. They cover the following functional areas: planning and budgeting, accounting, revenue estimation, cash management and collection, debt management, purchasing or procurement, and auditing and reporting.

54. Jordan, Thomas D. (1984)

**A handbook of gravity-flow water systems for small communities.**

London: Intermediate Technology Publications. 240 p.

ISBN 0-946688-50-8

Price: £ 6.50

This comprehensive handbook brings together the technologies, work procedures and experience developed in Nepal in the construction of

gravity-flow water supply systems. Covers: surveying; water sources; water quality assessment; design criteria and design period; basic hydraulics; distribution systems. Examples of water intake structures, pipelines, break-pressure tanks; air release valves; storage tanks; public standpost designs, valve boxes. Various appendices. Very useful handbook for training and reference purposes.

55. Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1980)  
**A summary of technical and economic options**  
Washington: World Bank. VIII, 36 p. (Appropriate Technology for Water Supply and Sanitation; Vol. 1a)  
Price: US \$ 3.00

Summarized version of the final report on the World Bank Research Project on appropriate technology for water supply and waste disposal in developing countries. It reports the broad technical, economic, health, and social findings of the research and discusses the aspects of program planning necessary for their implementation.

56. Kalbermatten, John M.; Julius, DeAnne S.; Gunnerson, Charles G. (1982)  
**Appropriate sanitation alternatives: a technical and economic appraisal**  
Baltimore: John Hopkins University Press. xii, 172 p. (World Bank Studies in Water Supply and Sanitation; No. 1) Stock No. 42584.  
ISBN 0-8018-2578-4  
Price: US \$ 17.95

Summary of the technical, economic, environmental, health and socio-cultural findings of the World Bank's research programme on appropriate sanitation alternatives, directed towards officials and sector policy advisors in developing countries. Aspects of programme planning that are necessary to implement appropriate sanitation solutions are discussed.

57. Karlin, Barry; Isely, Raymond B. (1984)  
**Developing and using audio-visual materials in water supply and sanitation programs**  
Arlington: Water and Sanitation for Health Project. 111 p. (WASH Technical Report; No. 30).  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

Provides examples of visual materials, with emphasis on importance of careful development, pre-testing and evaluation. With conceptual educational frameworks useful for programme planning. To support communication with user groups and communities on the impact of water and sanitation deficiencies on health and hygiene, promotion of behavioural changes, community participation. Design and preparation of audio-visual materials and data requirements, problems, and obstacles; procedures for pre-testing of materials, examples of successful pre-testing; training of designers and users of audio-visual aids; training resources; production of audio-visual materials.

58. Kaufman, M. (1983)  
**From ferro to bamboo: a case study and technical manual to a rain water catchment tank project**  
Yogyakarta: Dian Desa. 48 p.  
Price: US \$ 12.00 (Dian Desa), Sfr 10.00 (SKAT),  
Satis Tokens 13.50

A comprehensive case study on the introduction of rainwater catchment tanks in Indonesia with a step-by-step guide to the construction of bamboo-cement tanks.

59. Kerr, Charles (Ed.) (1990)  
**Community health and sanitation**  
London: Intermediate Technology Publications. 300 p.  
ISBN 1 85339 018 6.  
Price: £ 12.50.

This book consists of articles originally published in **Waterlines** and **Appropriate Technology** magazines. This worthy companion to **Community Water Development** continues to promote the community-sensitive approach to water supply, in its sections on the protection of water in the house and at the source; latrines and waste disposal, sanitation, and hygiene problems, education and training.

60. Kerr, Charles (Ed.) (1989)  
**Community water development**  
London: Intermediate Technology Publications. xii, 279 p.  
ISBN 0-94668823-0  
Price: £ 9.95

This collection of articles from **Waterlines** and **Appropriate Technology** covers: sources of water; abstraction; pumping and distribution; and training and maintenance. The editor has organized and introduced articles which have proved of particular interest, in such a way as to be of the greatest use for reference and training.

61. Koning, H.W. de (Ed.) (1987)  
**Setting environmental standards: guidelines for decision-making**  
Geneva: World Health Organization. vii, 105 p.  
Order No. 1150269. Also available in French and Spanish  
ISBN 92-4-154214-4  
Price: Sfr 17.00, US \$ 13.60

Thorough analysis of the factors to be considered when establishing policies and regulations to control health effects of environmental pollutants. With emphasis on the many technical and economic complexities surrounding any control measure, whether implemented voluntarily or through legislation. The objective is to give decision-makers a broad framework that can be used to establish control measures and determine how effectively they will achieve the desired result.

62. Jong, P. de (1988)  
**Hydraulic rams: consumers guide**  
Delft: Centre for International Cooperation and Appropriate Technology.  
19 p.  
Price: Free of charge from CICAT, Dfl 4.00 (TOOL), Satis Tokens 2.50

Tests some new, cheap types of hydraulic rams for local construction and maintenance, as well as several commercially available ones.

63. Lauterjung, Helmut; Schmidt, Gangolf (1989)  
**Planning of intake structures**  
Braunschweig: GATE. 122 p.  
ISBN 3-528-02042-3  
Price: Sfr 27.50 (SKAT), Satis Tokens 24.50

A practical introductory guide with basics on the planning and design of intake structures from rivers, for use in small hydro-electric plants, in irrigation and for drinking water installations.

64. Lawrence, J.E.S; Tomaro, J. B. (1988)  
**Human resource development planning: guidelines for the water supply and sanitation sector.**  
Arlington, VA: Water and Sanitation for Health Project.  
vi, 108 p. (WASH Technical Report; No. 20)  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

These guidelines are intended to provide a workable, structured, and systematic approach to HRD planning. Emphasis is placed on identifying and involving all key stakeholders in the development of human resources. The guidelines cover background procedures for estimating demand, procedures for estimating supply, and synthesis of demand/supply information and HRD plan development.

65. Leatherdale, Donald (1987)  
**Interwater thesaurus for community water supply and sanitation**  
The Hague: International Reference Centre for Community Water Supply and Sanitation. 2 vol. (253 p.; 112 p.) (Reference Series IRC; No. 4). Also available in French and Spanish.  
Price: US \$ 50.00

Provides a controlled, structured vocabulary for use in the indexing, storage and retrieval of documentation and information.

66. Lee, Michael; Bastemeijer, Teun (1991)  
**Drinking water source protection: an overview of problems, causes, experiences and needs**  
The Hague: IRC International Water and Sanitation Centre.  
ii, 83 p. (Occasional Paper Series IRC; No.15)  
Price: US \$ 7.50

The main environmental problems affecting water sources for small communities are presented. Many references and examples from case studies illustrate how environmental degradation and pollution influence the drinking water quality, quantity and reliability of sources. Awareness raising paper on the protection and conservation of a critical component of the water supply cycle.

67. Little, I.M.D.; Mirrlees, J.A. (1988)  
**Project appraisal and planning for developing countries**  
Hampshire: Gower. xii, 388 p.  
ISBN 0-566-05676-3  
Price: £ 9.95

*Written for engineers, civil servants and economists. Deals with the economic rationale of social cost-benefit analysis in developing countries, and develops practicable procedures for evaluating investment projects. Discusses government objectives, income distribution, employment and shadow wage rates, the balance of payments, the role of planning agencies, and the treatment of the private sector. Detailed procedures -and short-cuts- are provided with an explanation of economic arguments for the procedures.*

68. Lynton, Rolf P.; Pareek, Udai (1978)  
**Training for development**  
West Hartford: Kumarian Press. 409 p. (Library of management for development)  
ISBN 0-931816-25-4  
Price: US \$ 50.00

*A comprehensive textbook on the theory and practice of training. Contents include an overview of the training process from pre-training to the back-home application. Organizational training needs are linked to individual motivation. Steps in the design and evaluation of programmes are described. There are also discussions about conducting workshops, the role of the trainer, and the training institution as an organization. Theories and examples are drawn from several countries.*

69. Mara, Duncan (1976)  
**Sewage treatment in hot climates**  
London: John Wiley & Sons. 168 p.  
ISBN 0-471-56784-1  
Order from University Microfilms International (Books on demand)

*Comprehensive textbook on sewage treatment in hot climates. Covers: composition and strength of sewage, characterization of sewage; principles of sewage treatment; preliminary treatment; secondary treatment problems with conventional treatment in hot climates. Advantages of waste stabilization ponds in developing countries with a hot climate; typical pond lay-outs and design criteria. Tertiary treatment; re-use of treated sewage effluent; aquaculture, agricultural re-use, municipal re-use, industrial re-use.*

70. Mara, Duncan; Cairncross, Sandy (1989)  
**Guidelines for the safe use of wastewater and excreta in agriculture and aquaculture: measures for public health protection**  
Geneva: World Health Organization. vii, 187 p. Order No. 1150324.  
ISBN 92-4-154248-9  
Price: Sfr 35.00, US \$ 28.00

Presents and explains the full range of practical and technical factors that need to be considered when planning, designing, and implementing schemes for the safe reuse of wastewater and excreta in agriculture and aquaculture. With emphasis on practical implications of new knowledge indicating that the recycling of wastewater and excreta can now be managed in ways that eliminate risks to health.

71. McCommon, Carolyn; Warner, Dennis; Johalem, David (1990)  
**Community management of rural water supply and sanitation services**  
Arlington, VA: Water and Sanitation for Health Project.  
ix, 49 p. (WASH Technical Report; No. 67) (Jointly published with the UNDP-World Bank Water and Sanitation Program as Water and Sanitation Discussion Paper No. 4)  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

Based on a symposium held at the World Bank, this report develops a definition of community management and examines community management functions, resources, benefits, and constraints. Seven case studies of projects (Sierra Leone, Togo, Malawi, Guatemala, Philippines, Kenya, and the U.S.) are used to identify important features of community management.

72. Morgan, Peter (1990)  
**Rural water supplies and sanitation**  
Harare: Blair Research Laboratory, Ministry of Health, 358 p.  
Macmillan Publishers Ltd.  
ISBN 0-333-48569-6  
Price: £ 6.95

A very practical, extremely-well illustrated, book relating the progress made in Zimbabwe in the field of well and handpump development, and in sanitation. Deals with hand dug wells, hand drilled wells, lining of well shafts, and extensively with the various types of handpumps used in Zimbabwe (Bucket pump, Blair pump, Nsimbi pump, Bush pump -150 pages). Options for single point gravity water supply and household and

small community water are presented. The sanitation section amply discusses the construction of the Blair ventilated improved pit latrine and its variations.

73. Nelson, K.D. (1985)  
**Design and construction of small earth dams**  
Melbourne: Inkata, xi, 116 p. (Australian Land Series)  
ISBN 0-909605-34-5  
Price: £ 14.95 (ITP)

Provides a sound practical approach to investigation, design and construction of small dams. Concentrates on simple low-cost designs that have been developed by engineers to suit Australian conditions. Useful book once it is decided to construct small earth dams for water resources development.

74. Nilsson, Ake (1988)  
**Groundwater dams for small-scale water supply**, Rev. ed.  
London: Intermediate Technology Publications. 69 p.  
ISBN 1-85339-050-X  
Price: £ 6.95 (ITP)

The methods described in this book are simple and inexpensive and therefore suitable for application in the development of water resources in developing countries. Two types of groundwater dams are defined, sub-surface dams constructed below ground level, which arrest the flow in a natural aquifer; and sand-storage dams which impound water in sediments caused by the dam itself. Planning and investigation methods are described, as are the design and construction of the two types of dams.

75. Nyumbu, I.L.;Scott.M.;Seager M.;Wang, C.; Laugeri, L. (1990)  
**Water supply and sanitation: Handbook of financial principles and methods**  
Geneva: World Health Organization, 94 p. Also available in French.  
Available free of charge from WHO/CWS

*Financing water supply and sanitation for sustainability means that all partners in the project contribute to cover all the costs of the project. This handbook gives the general conceptual framework and the methods that can be used to effect sustained project financing, including cost-recovery. Excellent book for planning resources coverage in water supply and sanitation. Useful as subject or background paper to familiarise government*



and programme staff with the principles and present practices in cost-recovery and other key financial mechanisms.

76. OECD (1989)  
**Water resource management: integrated policies**  
Paris: OECD.  
ISBN 92-64-13285-6  
Price: £ 13.50

Report underlines the need for more effective policy integration within the water sector itself (in order to improve water quality and quantity, demand management, surface and groundwater supply) and vis-à-vis other economic sectors having a major impact on water resources. Provides guidelines for policy-makers on strengthening institutional arrangements, improving water demand management and protecting groundwater resources.

77. Oomen, J.M.V.; De Wolf, J.; Jobin, W.R. (1990)  
**Health and irrigation: incorporation of disease control measures in irrigation, a multi-faceted task in design, construction and operation**  
Wageningen: International Institute for Land Reclamation and Improvement (ILRI). 2 vol. (450 p; 120 p.)  
ISBN 90-70754-21-5 (Vol. 1) Main text  
ISBN 90-70754-17-7 (Vol. 2) Case studies  
Price: US \$ 51 (Vol.1), US \$ 20.50 (Vol 2)

"Health and Irrigation" is published in two volumes. The first contains the subject chapters and some technical notes. The second volume gives practical examples and case studies, as well as a geographical overview of vector-borne diseases and their vectors. Issues dealt with include: transmission principles of infectious diseases, the concept of integrated disease control, and the role of engineers. Good coverage is provided of engineering measures for control of vector-borne diseases. Of particular interest are the sections on disease control in the domestic environment. A set of excellent publications dealing with important environmental engineering measures which will also be of significant importance to disease control in relation to both storm water management and drainage.

78. Okun, A. Daniel; Ernst, Walter R. (1987)  
**Community piped water supply systems in developing countries:  
A planning manual**  
Washington: World Bank. xi, 262 p. (World Bank Technical Paper; No. 60)  
Stock No. 10896  
ISBN 0-8213-0896-3  
Price: US \$ 17.95

Manual for technical planning and implementation of community piped water supply systems. Can be used as the basis for preparation of country planning manuals.

79. Otis, Richard J.; Mara, D. Duncan (1985)  
**The design of small bore sewer systems**  
Washington: World Bank. III, 47 p.(TAG Technical Note; No. 14)  
Price: Available free of charge from World Bank

Small-bore sewer systems consist of small-diameter pipes laid at flat gradients to form the waste water collection network. These systems can be quite economical for collection of limited flows of waste water and are especially appropriate for urban slum areas with a high population density and a flat geography. Book covers: design criteria for small-bore sewers, interceptor tank, appurtenances; choice of materials, construction, maintenance; small-bore sewer systems receiving aqua-privy discharge, septic tank effluent. Appendices: interceptor tank design, examples of small-bore sewer designs.

80. Pacey, Arnold; Cullis, Adrian (1986)  
**Rainwater harvesting: the collection of rainfall and runoff in rural areas**  
London: Intermediate Technology Publications. viii, 216 p.  
ISBN 0-946688-22-2  
Price: £ 8.50 (ITP), US \$ 15.25 (ITDGNA), Sfr 20.00, Satis Tokens 18.00

Aims to fill the gap in existing literature on the gathering and storage of water running off surfaces on which rain has directly fallen. Emphasizes the importance of social, economic and environmental considerations when planning and implementing rainwater harvesting projects.

81. Perrett, Heli E. (1983)  
**Planning of communication support (information, motivation and education) in sanitation projects and programs**  
Washington: World Bank. i, 16 p. (TAG Technical Note; No. 2)  
Price: Available free of charge from World Bank

Communication support in sanitation projects includes information, motivation and education activities specifically designed to promote the participation of the beneficiaries. Communication support activities help to avoid problems, such as, low level of interest in sanitation improvements, dissatisfaction with the selected technology, difficulties with required community contributions, poor use of latrines, abuse and poor maintenance.

82. Perrett, Heli E. (1985)  
**Involving women in sanitation projects**  
Washington: World Bank. iii, 27 p.(TAG Discussion Paper; No. 3)  
Price: Available free of charge from World Bank

Paper presents the case of involving women in sanitation projects, and the analytical tools to define their role. Design of communication activities to reach and influence women; women as participants in communication; mechanisms and strategies. Monitoring and evaluation of women's participation.

83. Pike, E.G. (1987)  
**Engineering against schistosomiasis/bilharzia: guidelines towards control of the disease**  
Basingstoke: Macmillan. 138 p.  
ISBN 0-333-43221-5  
Price: £ 4.95

Guidelines aimed at showing how water-related engineering and agricultural projects can be arranged so that they build in permanent basic controls against schistosomiasis, or assist in the use of repetitive controls of various kinds, with the objective of improving and maintaining public health. Simple extra measures taken over and above normal engineering practice that will enhance schistosomiasis control are presented. An interdisciplinary approach is advocated whereby engineering, agricultural, educational and administrative personnel appreciate what each can contribute to schistosomiasis control. Essential for all those working in schistosomiasis infected areas.

84. Polprasert, Chongrak; Rajput, Vijay S. (1982)  
**Septic tank and septic systems**  
Bangkok: Environmental Sanitation Information Centre. 110 p.  
(Environmental Sanitation Reviews; No. 7/8)  
ISSN 0125-5088  
Price: US \$ 9.00

State-of-the-art review on the septic tank and septic tank systems. Information is given on performance, design and construction. Methods of septic tank effluent disposal are described including subsurface soil absorption and evapotranspiration beds and anaerobic upflow filters. Environmental effects of septic tank systems are discussed. The design information presented is intended solely as technical guidance.

85. Prins, Agma; Yacoob, May (1988)  
**Adding guinea worm control components: guidelines for water and sanitation projects**  
Arlington: Water and Sanitation for Health Project. iii, 74 p. (WASH Technical Report; No. 51)  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

This report offers guidelines on adding a guinea worm component to existing large-scale national water and sanitation projects. The guidelines may also apply to agricultural and educational efforts. Field tested in Togo Rural Water Supply Project. Contains useful appendices to serve as models for field workers, such as forms for information gathering and evaluation; a work guide and activity report for trainers.

86. Rabbani, K.R.; Jindal, R.; Kubota H.; Obeng, L. (1983)  
**Composting of domestic refuse**  
Bangkok: Environmental Sanitation Information Centre. 100 p.  
(Environmental Sanitation Reviews; No. 10/11)  
ISSN 0125-5088  
Price: US \$ 13.00

This review deals with the composting of domestic refuse, i.e. solid wastes, other than human and animal excreta, generated from the house. Following an historical review, the microbiological and biochemical principles and kinetics of composting are discussed. Includes technical descriptions of both non-reactor and reactor composting systems; determination of compost maturity; final processing and handling of the compost; public health and economic aspects and composting practices in developing countries.

87. Raghunath, H.M. (1987)  
**Ground water: hydrogeology, ground water survey and pumping tests, rural water supply and irrigation systems 2nd ed.**  
New Delhi: Wiley Eastern. 563 p.  
ISBN 0470-20688-5  
Price: £ 38.70, order through John Wiley

This thorough introduction to the subject of groundwater covers the field from first principles to various applications, with an emphasis on hydrogeology. In a lucid style, it treats all aspects of groundwater - investigation, development and utilization - each explained with simple theory and illustrated with worked examples. SI units are used throughout. Materials presented are reinforced by worked out examples and by questions and assignment problems at the end of each chapter.

88. Rajagopalan, S; Shiffman, M.A. (1974)  
**Guide to simple sanitary measures for the control of enteric diseases**  
Geneva: World Health Organization. 103 p.  
ISBN 92-4-154047-8  
Price: Sfr 25.00

The guide provides a compendium of knowledge on simple measures that can be implemented with limited resources to control enteric diseases and cholera epidemics in particular. It is intended for the use of professional personnel responsible for public health and sanitary services at country level in developing countries. The planning and organization of emergency measures for water supply, waste collection and disposal, institutional and camp sanitation and food sanitation are dealt with. Course curricula for training programmes in emergency measures are given in an annex.

89. Roark, Philip (1990)  
**Evaluation guidelines for community-based water and sanitation projects**  
Arlington, VA: Water and Sanitation for Health Project.  
v, 80 p. (WASH Technical Report; No. 64)  
Price: Free of charge to non-profit development organisations; for-profit organisations will be charged for reproduction and postage.

Based on experience with more than 50 evaluations and assessments, this report presents a model for evaluating water and sanitation projects. Use of the model assures: a focus on all pertinent project elements, selection of the appropriate indicators of success, better comparisons between projects, and collection of important lessons learned. The report includes several useful appendices: questionnaires for use in the field, a sample schedule, and a bibliography.

90. Roth, Gabriel (1987)  
**The private provision of public services in developing countries**  
New York: Oxford University Press. xv, 278 p. (EDI Series in Economic Development)  
ISBN 0-19-520544-8  
Price: £ 22.50

An examination of the opportunities to engage the resources of the private sector in meeting development challenges.

91. Roy, A.K.; Chatterjee, P.K.; Gupta, K.N.; Khare, S.T.; Rau, B.B.; Singh, R.S. (1984)  
**Manual on the design, construction and maintenance of low-cost pour-flush waterseal latrines in India**  
Washington: World Bank. 104 p. (TAG Technical Note; No. 10)  
Price: Available free of charge from World Bank

This (illustrated) manual was prepared for agencies, contractors and individuals involved in various aspects of the low-cost pour flush waterseal latrine programme in India. The principles are of general application. With minor modifications the technical details can be adapted to meet the needs of different areas, particularly where water is used for ablutions. The manual covers aspects of design, construction, maintenance and administration of low-cost pour-flush waterseal latrines with off-set twin pits.

92. Sharma, P.C.; Gopalratnam, V.S. (1980)  
**Ferrocement water tank**  
Bangkok: International Ferrocement Information Center. iii, 42 p. (Do It Yourself Series, No. 2)  
Price: US \$ 4.00 (IFIC), Sfr 11.50 (SKAT), Dfl 5.60 (TOOL), Satis Tokens 6.00

A step-by-step procedure with illustrations on the construction of a ferrocement water tank.

93. Shuval, Hillel I.; Gunnerson, Charles G.; Julius, DeAnne S. (1981)  
**Night-soil composting**  
Washington: World Bank. (Appropriate technology for water supply and sanitation; Vol. 10). 81 p.  
Price: US \$ 6.95

Review on the state-of-the-art on night-soil composting. A problem in systems separately disposing grey water and night soil is the lack of a safe, inexpensive treatment method for night soil. Aerobic composting of night soil proves a method of treatment ideally suited for developing countries because of its simplicity in operation, limited need for mechanical equipment, low cost and its effectiveness in inactivating pathogens, thus assuring that the compost can be used without causing any public health hazard.

94. Simpson-Hébert, Mayling (1983)  
**Methods for gathering socio-cultural data for water supply and sanitation projects**  
Washington: World Bank. 23 p. (TAG Technical Note; No. 1)  
Price: Free of charge from World Bank

The technical note is intended primarily to help engineers who need to obtain socio-cultural data in the course of planning and designing low-cost water supply and sanitation projects for small communities. Secondly it is aimed at social scientists who work with engineers and wish to improve mutual communication. It describes data requirements, key data-gathering techniques (observer participation; key informant interviewing; open-ended questionnaires; and surveys), and how these techniques can be modified to suit particular circumstances.

95. SKAT (1985)  
**Manual for rural water supply**  
St. Gallen: Swiss Centre for Appropriate Technology (SKAT).  
175 p. Also available in French and Spanish.  
Price: Sfr 34.00 (SKAT), Dfl 56.45 (TOOL), Satis Tokens 34.50

A very successful guide on how to identify, plan, organize, and execute drinking water projects (based on project experiences in Cameroon). With many elaborate scale drawings. Especially for engineers and construction supervisors but serves also as a comprehensive overview for non-technical people.

*N.B.* This publication will gradually be replaced by a series of manuals on "Drinking Water, Sanitation and Health" (1991/1992). The series will concentrate on technical issues reflecting 25 years of Swiss experience in construction and training in gravity water supply, hand pump development and sanitation in developing countries. Contact SKAT for details.

96. Smet, Jo; Visscher, Jan Teun; Ginhoven, Dick van; Ankersmit, Willem (1988)  
**Community self-improvements in water supply and sanitation: a training and reference manual for community health workers, community development workers and other community-based workers**  
The Hague: IRC International Water and Sanitation Centre. 175 p.  
(Training Series IRC; No. 5)  
Price: US \$ 20.00

Manual covering all aspects of environmental sanitation improvements in their house, yard or community that people can achieve themselves. Clear ideas are presented that can easily be translated into the local languages and adapted to local cultural and socio-economic conditions. Very useful for training courses and for field workers as subject and reference material.

97. Smethurst, George (1988)  
**Basic water treatment for application world-wide, 2nd ed.**  
London: Thomas Telford 224 p.  
ISBN 0-7277-1331-0  
Price: £ 17.45

This text concentrates on the essentials of water treatment, on the practicalities, and on systems which will not only provide what is needed at least cost, but go on providing it with a minimum of skilled maintenance. The author summarizes the options available to those responsible for designing and running water treatment plants in all types of situations. Textbook used by Open University in its course on Environmental Monitoring and Control.

98. Stephens, Alexandra; Ill. Putman Kees (1988)  
**Participatory monitoring and evaluation: handbook for training field workers**  
Bangkok, Food and Agriculture Organisation, Regional Office for Asia and the Pacific (RAPA publication no.2)  
ISN 6890  
Price: Free of charge from RAPA.

Presents rationale for participatory evaluation and explains the need for the right attitude on the part of the extension worker. Simple methods and tools for community level monitoring, reporting and evaluation are described. Cartoons support message.



99. Strauss, Martin; Blumenthal, Ursula (1990)  
**Human waste use in agriculture and aquaculture: utilization practices and health perspectives**  
Executive summary prepared by Pescod, M.B.  
Duebendorf: International Reference Centre for Waste Disposal. viii, 52 p.  
(IRCWD report; No. 09/90)  
Price: Free of charge from IRCWD

This executive summary of a case study document covering waste use practices in 10 countries, aims to provide planners and decision makers with an overview of reuse practices and an understanding of their dependency on local, cultural, economic and climatic conditions. At the same time it intends to serve as a guide on potential health impacts and on the health protection measures implemented in the different countries. The document contains a concise set of references and lists institutes active in this field.

*NOTE:* The full version of "Human waste use in agriculture and aquaculture: utilization practices and health perspectives" is published as IRCWD report 08/90, and is available from SKAT at a price of Sfr 35.00.

100. Stulz, R.; Mukerji, K. (1988)  
**Appropriate building materials**, 3rd ed.  
London: ITDG/SKAT/GATE. 430 p.  
ISBN 0-946688-28-1  
Price: £ 9.95 (ITP), Sfr 30.00 (SKAT), US \$ 19.50 (ITDGNA), Dfl 44.00 (TOOL), Satis Tokens 26.50

Standard building materials sourcebook. Summarizes the technical data and practical information to enable the reader to identify appropriate solutions for any given low-cost construction application in developing countries. Completely revised second edition, with new annexes giving overviews of equipment, conversion factors, addresses and bibliography.

101. Tam, D.M.; Thanh, N.C. (1982)  
**Biogas technology in developing countries: an overview of perspectives**  
Bangkok: Environmental Sanitation Information Centre. 59 p.  
(Environmental Sanitation Reviews; No. 9)  
ISSN 0125-5088  
Price: US \$ 7.50

The scope of the review is the technology of "stand-alone" (i.e. not a component of an integrated waste recycling system) family size biogas systems in developing countries. Subjects covered are: the benefits of biogas

technology; economics; socio-economic aspects; problems and constraints; and prospects for improvements. In conclusion the success of biogas technology in China is analyzed.

102. UNEP (1983)

**Rain and stormwater harvesting in rural areas: a report by the United Nations Environment Programme**

Dublin: Cassell Tycooly. vii, 238 p. (Water Resources Series, Vol. 5) ISBN 0-907567-39-8, price: £ 16.25, US \$ 32.50

*Note:* for developing countries mention " DC "

Price: £ 11.50, US \$ 23.00

Based on reports of rain and stormwater harvesting practice in Africa, Asia, Australia and the Pacific, Central America, China and the Middle East, this book provides an excellent summary of world-wide technologies relating to the collection, storage, treatment, distribution and use of rainwater and other forms of precipitation. Also includes recommendations and criteria for pilot projects.

103. Victoria Department of Water Resources. Australian Water Resources Council. (1989)

**Low cost sewerage options study**

Canberra: Australian Government Publishing Service. x, 116 p. (Water Management Series; No. 14)

ISBN 0-644-08987-3

Price: US \$ 10.00 from IRC

Report discusses several waterborne low-cost sewerage options available to small towns and communities without adequate facilities for the disposal of domestic sewage. Guidelines to assist in the identification of the most appropriate options are included.

104. Visscher, J.T.; Paramasivam, R.; Raman, A.; Heijnen, H.A. (1987)

**Slow sand filtration for community water supply: planning, design, construction, operation and maintenance**

The Hague: International Reference Centre for Community Water Supply and Sanitation. 149 p. (Technical Paper Series IRC; No. 24)

ISBN 90-6697-009-5

Price: US \$ 27.00 (IRC), Sfr 20.00 (SKAT), Satis Tokens 38.00

Established information on slow sand filtration is presented, as well as guidelines resulting from demonstration projects in developing countries. Overall system design and the cost of construction, operation and maintenance are discussed. Chapters further deal with planning and designing a slow sand filtration system, detailed information on the structural design, construction guidelines, outlines for detailed operation and maintenance procedures, and the importance of proper training. Includes appendices on pre-treatment, chlorination, soil investigation, flow measurement and water quality analysis.

105. **Water and Sanitation for Health Project. (1990)**  
**Lessons learned from the WASH Project: ten years of water and sanitation experience in developing countries**  
Arlington, VA: Water and Sanitation for Health Project.  
xvi, 100 p.  
Free of charge from WASH.

This special report, published to coincide with the conclusion of the International Drinking Water Supply and Sanitation Decade, consists of lessons and basic principles of the following key topics: providing technical assistance, linking water and sanitation with related programs such as health and housing, insuring sustainability, and the roles and responsibilities of all organizations involved in water and sanitation projects. The lessons and principles grow out of the broad democratic premise that whatever the level of decision-making, ordinary people can be trusted to solve their own problems if they are given the chance, and no policy or program is likely to succeed unless they are.

106. **Water Research Centre (WRC), (1989)**  
**Disinfection of rural and small-community water supplies manual for design and operation**  
Published by WRC for WHO, Regional Office for Europe Medmenham:  
135 p.  
ISBN 0-902156-76-42  
Price: £ 5.00

Comprehensive manual providing a good overview of needs and limitations in respect of disinfection in small communities. Contents have high degree of validity for application to developing country situations. Discusses health aspects of water supply, protection of supplies, pre-treatment before disinfection and disinfection methods. With useful annexes on pH adjustment and iron removal.

107. Watt, S.B. (1984)

**Septic tanks and aqua-privies from ferrocement**

London: Intermediate Technology Publications Ltd. X. 108 p.

ISBN 0-903031-95-7

Price: £ 5.50

Written, in non-technical language for public health engineers, planners, and field workers engaged in improving sanitation.

108. Watt, S.B.; Wood, W.E. (1977)

**Hand dug wells and their construction**

London: Intermediate Technology Publications Ltd. 234 p.

ISBN 0-903031-27-2

Price: £4.95 (ITP), Sfr 12.50 (SKAT), Dfl 34.25 (TOOL), Satis Tokens 17.50

The methods described in this book have been used traditionally in many parts of the world, and the techniques are adapted to incorporate modern methods and materials. In the hand dug well, simple water lifting devices such as bucket and rope can be used and mechanical pumps which require constant maintenance are not necessary. Provides practical step-by-step guidance in the techniques of digging and constructing a well: principles of groundwater storage, the actual construction, the materials required and details on additional sources of information.

109. Wegelin, Martin (1986)

**Horizontal-flow roughing filtration (HRF): a design, construction and operation manual**

Duebendorf: International Reference Centre for Waste Disposal. 142 p.

(IRCWD Report; No. 06/86)

Price: Sfr 15.00 (SKAT), Satis Tokens 13.50

Technical manual addressed primarily to design engineers. Covers design, construction, operation and maintenance aspects. Based on laboratory tests and field experiences.

110. Werner, David (1988)

**Where there is no doctor: a village health care handbook**

(Original published in Spanish, contact The Hesperian Foundation for availability in language not mentioned here) London:TALC. 403 p

ISBN 0-333-44410-8

Also available from TALC in an African edition, in Spanish, Portuguese, Arabic. Price: £ 2.95 - £ 3.50 (depending on language), Sfr 25.00 (SKAT), Dfl 14.45 (TOOL)

French edition: Bfr 775 (ATOL), Sfr 22.00 (SKAT)

For India contact VHAI (Voluntary Health Association of India) which distributes an Indian version in various Indian languages.

This book has become one of the most popular of its kind and has been translated into numerous languages. Subtitled "A Village Health Care Handbook", it presents a sound discussion of ways in which health workers can be effective without creating dependency. While most of the book deals with common medical problems and their treatment, attention is given to disease prevention, including the use of clean water, latrines, personal hygiene and the prevention and treatment of water-related diseases. A useful glossary of words is included as well as addresses for obtaining teaching materials.

111. Werner, David; Bower, Bill (1982)

**Helping health workers learn: a book of methods, aids, and ideas for instructors at the village level.**

Palo Alto: Hesperian Foundation. 632 p.

Also available in Spanish and Portuguese

Price: US \$ 7.50 (Hesperian), £ 4.00 (TALC), Sfr 22.00 (SKAT), Dfl 26.00 (TOOL), Satis Tokens 19.00; for India contact VHAI (Voluntary Health Association of India) which has made a local reprint available at Rupees 40 .

This book is a very stimulating collection of methods, aids and ideas written for use by village instructors and health workers. The focus of the book is more educational than medical. Hundreds of drawings and photographs. Section on how to use "Where there is no doctor".

112. White, Alastair (1981)

**Community participation in water and sanitation: concepts, strategies and methods**

The Hague: IRC International Water and Sanitation Centre. (Technical Paper Series IRC; No. 17) 180 p.

Price: US \$ 22.00 (IRC), Sfr 26.00 (SKAT), Satis Tokens 23.50

A practical monograph presenting options for community participation, the circumstance appropriate to promote them and possible difficulties to be encountered. Topics dealt with include: forms and pros and cons of community participation, formal and informal consultation, community contributions, education and behavioural change, choice of strategy. Also

features convenient appendices, checklists, and diagrams which help the reader to again gain a quick overview.

113. WHO (1981)

**Drinking-water and sanitation, 1981-1990: A way to health: a WHO contribution to the international drinking water supply and sanitation decade**

Geneva: World Health Organization. 56 p.

ISBN 92-4-156068-1

Price: Sfr 9.00

This WHO booklet outlines the WHO approach to community water supply and sanitation in the context of the decade. In line with this approach, WHO emphasizes within its programme the following activities: national plans and programmes, institutional strengthening, exchange of information on appropriate technology, monitoring and evaluation, and mobilization of external resources for these activities.

114. WHO (1983)

**Minimum evaluation procedure (MEP) for water supply and sanitation projects**

Geneva: World Health Organization. 50 p.

ETS/83.1 CDD/OPR/83.1

Only available from WHO

This document describes a relatively cheap, simple and quick method of evaluating water supply and sanitation projects which employ simple technologies. The purpose of evaluation and the purpose of the MEP are discussed and a step-by-step procedure for evaluation is outlined. Indicators for the functioning and the utilization of facilities are discussed, documented experience from impact evaluation-studies is summarized and information on data gathering techniques is presented.

115. WHO (1984-1985)

**Guidelines for drinking water quality**

Geneva: World Health Organization.

Vol.1: Recommendations. vi, 130 p.

ISBN 92-4-154168-7

Price: Sfr 20.00 (WHO), Sfr 19.50 (SKAT), Satis Tokens 17.50

Gives guideline values for various constituents of drinking water.

116. WHO (1984-1985)

**Guidelines for drinking water quality**

Geneva: World Health Organization.

Vol.2: Health Criteria and other supporting information.

ix, 335 p.

ISBN 92-4-154169-5

Price: Sfr 38.00 (WHO), Sfr 38.50 (SKAT), Satis Tokens 34.50

Contains a review of the toxicological epidemiological, and clinical evidence that was available and used in deriving in the recommended guideline values that are given in Volume 1.

117. WHO (1984-1985)

**Guidelines for drinking water quality**

Geneva: World Health Organization.

Vol.3: Drinking water quality control in small-community supplies. iv, 121 p.

ISBN 92-4-154170-9(V.3)

Price: Sfr 20.00 (WHO), Sfr 19.50 (SKAT), Dfl 29.90 (TOOL) Satis Tokens 19.00

Deals specifically with drinking-water supplies for small communities, particularly in rural areas, with the main emphasis on microbiological quality. It contains information on surveillance of water-supply systems and the remedial and preventive measures necessary for maintenance of water quality, and gives step-by-step instructions on methods for collection of water samples, bacteriological analysis, and determination of residual chlorine.

118. WHO (1986)

**Guiding principles for national monitoring of the water supply and sanitation sector**

Geneva: World Health Organization. 24 p.

Price: free of charge from WHO/CWS

Guiding principles designed to assist national authorities in creating and maintaining a regular mechanism for monitoring the water supply and sanitation sector. Flexible guidelines are suggested to be applied in the context of a formal sector development plan to harmonize reporting mechanisms and strengthen information bases; and to monitor sector performance and progress.

119. WHO (1986)

**Institutional development in community water supply and sanitation: themes and questions**

Geneva : World Health Organization, 50 p.

WHO/CWS/86.10

Price: free of charge from WHO/CWS

Institutional development issues are addressed using a fictitious country case study. Aspects of decentralization, (financial) resources sharing, intersectoral links, community involvement and human resources development are discussed in the light of sustainability.

120. WHO (1987)

**The community health worker: Working guide. Guidelines for training. Guidelines for adaption, Rev. and enlarged ed.**

Geneva: World Health Organization. 463 p.

ISBN 92-4-156097-5 , Also available in French and Spanish.

Price: Sfr 22.00, US \$ 13.20

Completely revised and enlarged edition of "The Primary health Worker". Very useful working guide in 52 training and reference units, providing excellent support in the training and daily work routine of community health workers. Book also covers meaning of primary health care in terms of focus on the community, emphasis on preventive health care, and reliance on local skills and resources.

121. WHO (1987)

**Housing and health: an agenda for action**

Geneva: World Health Organization. 31 p.

Price: Free of charge from WHO/EHE/RUD

*NB.* full publication entitled: Health principles of housing (1989), 44 p. Sfr 11.00, being translated into French and Spanish

Brochure serves as an alert to the range of housing-related factors that influence health and as a plea to consider these factors in development schemes. Formulates 11 key principles and explains linkages between various environmental influences on health, that are especially important in urban and urbanising settlements. Provides essential overview to planner, and environmental or public health engineer.



122. WHO Study Group on Technology for Water Supply and Sanitation in Developing Countries (1987)  
**Technology for water supply and sanitation in developing countries: report of a WHO Study Group**  
Geneva: World Health Organization. 38 p. (WHO Technical Report Series; No. 742)  
ISSN 0512-3054  
ISBN 92-4-120742-6  
Price: Sw.Fr. 7.00

The WHO Study Group reviews advances in technologies related to urban and rural water supplies and sanitation in developing countries. These developments are appraised in the light of community needs, local conditions and available resources. Constraints that limit the application of appropriate technologies are identified. Gaps in knowledge are also identified and further research and development is suggested. Recommendations are made for improving the exchange of information concerning various techniques.

123. WHO (1988)  
**Education for health: a manual on health education in primary health care**  
Geneva: World Health Organization. 261 p.  
ISBN 92-4-154225-X  
Price: Sfr 34.00, US \$ 27.20

This manual will help community health workers provide appropriate health education that uses local resources, and involves local people. It covers the relationship between behaviour and health and the role of health education in helping people to adopt healthier life-styles.

124. WHO Regional Office for the Eastern Mediterranean (Alexandria) (1987)  
**Wastewater stabilization ponds: principles of planning and practice**  
Alexandria: Regional Office for the Eastern Mediterranean, World Health Organization. 138 p. (WHO EMRO Technical Publication; No. 10). Order No. 1450010.  
ISBN 92-9021-001-X  
Price: Sfr 25.00, US \$ 20.00

Illustrated guide covering virtually all issues, from planning considerations to details of engineering, concerning the use of wastewater stabilization ponds as a method of wastewater treatment and disposal. Guide for decision-makers faced with making a choice between competing systems for wastewater treatment.

125. Wijk-Sijbesma, Christine van (1985)  
**Participation of women in water supply and sanitation: roles and realities**  
The Hague: IRC International Water and Sanitation Centre. 191 p.  
(Technical Paper Series IRC; No. 22)  
ISBN 90-6687-006-0  
Price: US \$ 23.00

This document summarizes present insight in and experiences with involving women in water and sanitation projects. Provides insight in traditional roles of women in domestic water supply and sanitation, short and long-term benefits of women's project involvement, practical ways of securing this involvement in local planning and implementation, maintenance, financing, health education and evaluation. Special attention is paid to implications for agency staff, training, project preparation, interagency cooperation and research.

126. Wijk-Sijbesma, Christine van (1987)  
**What price water? User participation in paying for community-based water supply; with particular emphasis on piped systems**  
The Hague: IRC International Water and Sanitation Centre. vi, 82 p.  
(Occasional Paper Series IRC; No. 10)  
Price: US \$ 7.50 (IRC), Sfr 9.00 (SKAT), Satis Tokens 8.00

This publication has the character of a catalogue of community financing systems: what mechanisms for cost-recovery are available, under what circumstances could they be applied and what are their advantages and disadvantages? It provides a set of practical guidelines for project staff and policy-advisers involved in this increasingly important area.

127. Wijk-Sijbesma, Christine van (1988)  
**Community participation and women's involvement in water supply and sanitation projects: a compendium paper**  
The Hague: IRC International Water and Sanitation Centre. 80 p.  
(Occasional Paper Series IRC; No. 12)  
Price: US \$ 7.50

Prepared following a recommendation from the OECD/DAC, this occasional paper summarizes current thinking on community participation and the involvement of women in the sector and discusses its value and limitations. Provides overview of issues involved, and suggestions for further development and research.

128. Williams, Glen (1989)

**All for health: a resource book for Facts for Life**

New York: Facts for Life Unit, UNICEF. xvii, 72 p.

Also available in French, Portuguese and Arabic

Price: US \$ 1.00

Deals with the necessity of proper communication of vital child health knowledge to parents and communities throughout the developing world.

129. Winblad, Uno; Kilama, Wen (1985)

**Sanitation without water**, Rev. and enlarged ed.

Basingstoke: Macmillan. XI, 161 p. (Macmillan Education).

ISBN 0-333-39140-3 (paperback)

Price: £2.50

Contains practical information on design, construction, operation and maintenance of sanitation systems for individual households. The main systems described are pit and compost latrines, pour-flush latrines and construction of soakpits. Includes a bibliography and a glossary.

130. World Water; WHO (1988)

**The International Drinking Water Supply and Sanitation Decade directory: catalogue of external support and consultants directory, 3rd ed.**

London : Thomas Telford. 150 p.

ISBN 0-7277-1312-4 (of 0-7277-1207-1??)

Price: £ 69.00

Information briefs from 103 external support agencies concerning their activities supporting water and sanitation development. Each entry has full address details. There is also a section listing over 240 consulting firms who are active in this sector internationally.



# *SECTION 3: ADDRESSES OF PUBLISHERS AND INFORMATION EXCHANGE CENTRES*

**Academic Press Inc. Ltd.**  
24/28 Oval Road  
London NW1 7DX  
United Kingdom

**AHRTAG** *(Appropriate Health Resources and Technologies  
Action Group)*

1 London Bridge Street  
London SE1 9SG  
United Kingdom

**APHA** *(American Public Health Association)*  
International Health Programmes  
1015 15th Street, N.W.  
Washington, D.C. 20005  
U.S.A.

**ATOL** *(Aangepaste Technologie Ontwikkelings Landen)  
[Study and Documentation Centre on Appropriate  
Technology in Developing Countries]*

Blijde Inkomstlaan 9  
B-3000 Leuven  
Belgium

**AT Source**  
P.O.Box 41  
6700 AA Wageningen  
The Netherlands

**AWWA** *(American Water Works Association)*  
6666 West Quincy Avenue  
Denver, Co.20433  
U.S.A.

**Cassel Tycooly**  
Artillery House  
Artillery Row  
London SW1P 1RT  
United Kingdom

**Blackwell Scientific Publications**  
P.O.Box 88  
Oxford  
United Kingdom

**CEFIGRE** *(Centre de Formation International à la Gestion des  
Ressources en Eau)*  
Place 35 Sophie Laffitte  
B.P. 13  
Sophia Antipolis  
06561 Valbonne Cedex  
France

**CEPIS** *(Centro Panamericana de Ingeniera Sanitaria y  
Ciencias Basicas del Ambiente)*  
Casilla Postal 4337  
Lima 100  
Peru

**CICAT** *(Centre for International Cooperation and  
Appropriate Technology)*  
P.O.Box 5048  
2600 GA Delft  
The Netherlands

**ENSIC** *(Environmental Sanitation Information Center)*  
Asian Institute of Technology  
P.O. Box 2754  
Bangkok 10501  
Thailand

**ESCAP** *(Economic and Social Commission for Asia and the Pacific)*  
Natural Resources Division  
U.N. Building  
Rajadamnern Avenue  
Bangkok 10200  
Thailand

**FAKT** *(Association for Appropriate Technologies in the third world)*  
Gänsheidestr. 43  
D-7000 Stuttgart 1  
Germany

**GATE** *(German Appropriate Technology Exchange)*  
Postfach 5180  
D-6236 Eschborn 1  
Germany

**Gower Publishing Company Ltd**  
Gower House  
Croft Road  
Aldershot  
Hants GU11 3HR  
United Kingdom

**G.R.E.T.** *(Groupe de Recherche et d'Echanges Technologiques)*  
213, Rue Lafayette  
75010 Paris  
France

**Hesperian Foundation**  
P.O.Box 1692  
Palo Alto CA 94302  
U.S.A.

**IDRC**  
Communications Division  
P.O.Box 8500  
Ottawa K1G 3H9  
Canada

**Inades-Formation**  
08 B.P. 8  
Abidjan 8  
Côte d'Ivoire

**ILO Publications**  
International Labour Office  
CH-1211 Geneva 22  
Switzerland

**ILRI** *(International Institute for Land Reclamation and Improvement)*  
P.O.Box 45  
6700 AA Wageningen  
The Netherlands

**IRC International Water and Sanitation Centre**  
P.O. Box 93190  
2509 AD The Hague  
The Netherlands

**IRCWD** *(International Reference Centre for Wastes Disposal)*  
Ueberlandstrasse 133  
CD-8600 Duebendorf  
Switzerland

**IT Publications** *(Intermediate Technology Publications)*  
103/105 Southampton Row  
London WC1B 4HH  
United Kingdom

**IWEM** *(Institution of Water and Environmental Management)*  
15 John Street  
London WC1N 2EB  
United Kingdom

**IWSA** *(International Water Supply Association)*  
1 Queen Anne's Gate  
London SW1H 9BT  
United Kingdom

**Johnson Division**  
St.Paul  
Minnesota 55112  
U.S.A.

**Kumarian Press**  
28 Bishop Road  
West Hartford  
Connecticut 06119  
U.S.A.



**Macmillan Publishers Ltd.**  
Customer Services  
Houndmills, Basingstoke RG21 2XS  
United Kingdom

**Oxford University Press**  
Distribution Services  
Saxon Way West, Corby  
Northamptonshire NN18 9ES  
United Kingdom

**OECD**  
2, rue André-Pascal  
75775 PARIS CEDEX 16  
France

**PROWESS/UNDP**  
Room FF-12108  
304 E.45th Street  
New York NY 10017  
U.S.A.

**Ross Institute**  
London School of Hygiene and Tropical Hygiene  
Publications Secretary  
Keppel Street  
London WC1E 7HT  
United Kingdom

**RAPA:**  
**FAO**  
Regional Office for Asia and the Pacific  
Phra Atit Road  
Bangkok 2000  
Thailand

**SATIS** (*Global Union of Technologies for Sustainable Development*)  
P.O.Box 17227  
1001 GE Amsterdam  
The Netherlands

**SKAT**

*(Schweizerische Kontaktstelle für Angepasste Technik)  
[Swiss Centre for Appropriate Technology]*

Tigerbergstrasse 2  
9000 St.Gallen  
Switzerland

**Springer Verlag**

Tiergartenstrasse 17  
D-6900 Heidelberg  
Germany

**TALC**

*(Teaching Aids at Low Cost)*

P.O.Box 49  
St.Albans  
Herts. AL1 4AX  
United Kingdom

**Terres et Vie**

Rue Laurent Delvaux, 13  
1400 Nivelles  
Belgium

**Thomas Telford Ltd.**

Thomas Telford House  
1, Heron Quay  
London E14 9XF  
United Kingdom

**TOOL**

*(Technische Ontwikkeling Ontwikkelings Landen)  
[Transfer of Technology for Development]*

Sarphatistraat 650  
1018 AV Amsterdam  
The Netherlands

**UNCHS/HABITAT**

*(United Nation Commission for Human Settlements)*

P.O.Box 30030  
Nairobi  
Kenya

**UNDP**

*(United Nations Development Programme)*

Division of Information  
One UN Plaza  
New York NY 10017  
U.S.A.

**University Microfilms International**  
300 N. Zeeb Road  
Ann Arbor  
Michigan 48106-1346  
U.S.A.

**VHAI**  
40, Institutional Area  
South of IIT  
New Delhi 110016  
India

*(Voluntary Health Association of India)*

**VITA**  
1815 N.Lynn St., Suite 200  
Arlington, Virginia 22209-2079  
U.S.A.

*(Volunteers in Technical Assistance)*

**WASH Operations Center**  
Room 1002  
1611 North Kent Street  
Arlington, VA 22209  
U.S.A.

**Wiley**  
**John Wiley & Sons Ltd**  
Baffins Lane  
Chichester  
West Sussex, PO19 1UD  
United Kingdom

**World Bank**  
**World Bank Publications**  
1818 H. Street, N.W.  
Washington, D.C. 20433  
U.S.A.

for free of charge publications contact:

**UNDP - World Bank Water and Sanitation Program**  
Infrastructure and Urban Development Department (INUWS)  
The World Bank  
1818 H Street N.W.  
Washington D.C. 20433  
U.S.A.

for **The Urban Edge** contact:  
World Bank (Room J-2-231)  
1818 H Street N.W.  
Washington D.C. 20433  
U.S.A.

**WHO**

WHO

Distribution and Sales Service  
Avenue Appia  
1211 Geneva 27  
Switzerland

*(World Health Organization)*

**World Health Organization**

WHO/CWS

Avenue Appia  
1211 Geneva 27  
Switzerland

**World Health Organization**

WHO/EHE/RUD

Avenue Appia  
1211 Geneva 27  
Switzerland

**World Neighbors**

5116 N Portland Ave.  
Oklahoma City OK 73112  
U.S.A.

**WRc**

P.O.Box 16  
Marlow, Buckinghamshire SL7 2HD  
United Kingdom

*(Water Research Centre)*

## *SECTION 4: JOURNALS AND NEWSLETTERS*

### **1. JOURNALS**

**AT Source:** Magazine on Technology and Development  
**Wageningen:** AT Source  
**Subscription:** Dfl.35 annually  
**Published:** quarterly; appears in both English and French  
Free to organizations in ACP countries (ACP - relates to the Second Lomé Convention between the member states of the European Community and 63 states from Africa, the Carribean and the Pacific).  
Request for free subscription can be sent to Editorial Board AT-Source.

**Aqua:** Journal of Water Supply Research and Technology  
**Oxford:** International Water Supply Association (IWSA) /  
Blackwell Scientific Publications Ltd.  
**Subscription:** £ 87.50, US \$ 146.50 annually, free of charge to members  
of the IWSA.  
**Published:** bimonthly; bilingual, in English and French

**GATE** Questions, answers, information: on appropriate technology  
**Eschborn:** German Appropriate Technology Exchange  
**Subscription:** free of charge  
**Published:** quarterly

**Highlights:** News on Water Supply, Sanitation and Environment  
**The Hague:** IRC International Water Supply and Sanitation Centre  
**Subscription:** US \$ 73.00 surface mail, US \$ 99.00 airmail, annually  
University departments/students, government departments  
and indigenous voluntary agencies from the least developing  
countries: US \$ 43.00 surface mail, US \$ 69.00 airmail  
**Published:** 6 to 8 times annually

**Journal American Water Works Association**  
**Denver,** Colorado: American Water Works Association.  
**Subscription:** US \$ 100.00 outside North America, US \$ 75.00 (\$ 28.00 for  
members) annually  
**Published:** monthly; includes Spanish abstracts

**Source:** Reports on water supply and sanitation issues and experiences.  
**New York:** United Nations Development Programme, Division of Information  
**Subscription:** free of charge  
**Published:** quarterly

**The Urban Edge: issues & innovations**

**Washington:** World Bank  
**Subscription:** US \$ 28.95, free of charge to readers in developing countries.  
**Published:** 10 times a year; available in English, French and Spanish

**VITA News:**

**Arlington:** Volunteers in Technical Assistance  
**Subscription:** US \$ 15.00 annually, free of charge to readers in developing countries.  
**Published:** quarterly

**Waterlines:** Appropriate technologies for water supply and sanitation  
**London:** Intermediate Technology Publications.  
**Subscription:** £ 12.00, US \$ 23.00, (individuals), £ 14.00, \$ 27.00 (institutions) annually  
**Published:** quarterly

**Water Resources Journal**

**Bangkok:** Economic and Social Commission for Asia and the Pacific (ESCAP)  
**Subscription:** distributed free of charge in Asian and Pacific countries to organizations and projects in the public sector concerned with water resources development.  
**Published:** quarterly

**Water Supply:** The Review Journal of the International Water Supply Association  
**Oxford:** International Water Supply Association (IWSA) / Blackwell Scientific Publications Ltd.  
**Subscription:** £ 253.00, US \$ 425.00 annually, £ 49.50 annually to members of the IWSA.  
**Published:** quarterly

**World Water and environmental engineer**

**London:** Thomas Telford  
**Subscription:** £ 69.00 annually  
**Published:** monthly

## **2. NEWSLETTERS**

### **Dialogue on Diarrhoea: The International Newsletter on the Control of Diarrhoeal Diseases**

**London:** Appropriate Health Resources & Technologies Action Group (AHRTAG)  
**Subscription:** £ 10.00, US \$ 20.00 annually, free of charge to readers in developing countries  
**Published:** quarterly, also published in French

### **ENFO**

**Bangkok:** Asian Institute of Technology (AIT)  
*Environmental Sanitation Information Centre (ENSIC)*  
**Subscription:** US \$ 45.00, through annual membership only, includes ENSIC Abstract journals  
**Published:** quarterly

### **IRC Newsletter**

**The Hague:** IRC International Water Supply and Sanitation Centre  
**Subscription:** free of charge  
**Published:** 10 issues a year, also available in French

### **"IRCWD News"**

**Duebendorf:** International Reference Centre for Wastes Disposal  
**Subscription:** free of charge  
**Published:** at irregular intervals

### **WASH Fact Sheet**

**Arlington:** Water and Sanitation for Health Project  
**Subscription:** free of charge  
**Published:** 4 to 5 issues a year

### 3. BIBLIOGRAPHIC DATABASES/ABSTRACTS BULLETINS

#### **Aqualine Abstracts**

Oxford: Pergamon  
Subscription: DM 650.00  
Published: Biweekly

The **Aqualine** database provides comprehensive coverage of the world's scientific and technical articles, proceedings and related documents on water, wastewater, associated engineering services, and the aquatic environment. It is available for online searching via ORBIT Search Service. Contact ORBIT Search Service, Achilles House, Western Avenue, London W3 0UA. Alternatively, searches can be carried out on the client's behalf by the Water Research Centre.

#### **Environment Sanitation Abstracts : Low Cost Options**

Bangkok: Environmental Sanitation Information Center,  
Asian Institute of Technology  
Subscription: through membership only  
Published: 3 issues per year

#### **IRCDOC Database**

The Hague: IRC International Water and Sanitation Centre  
The **IRCDOC** database contains references on all aspects of drinking water supply and sanitation in developing countries, with emphasis on appropriate affordable technology, community involvement, health education, and resources coverage. Subject searches in **IRCDOC** can be carried out at cost by IRC staff. Extended searches into other databases such as **Aqualine**, **Afee**, **Waterlit**, **Pascal** can also be done against costs.  
For details contact IRC, P.O. Box 93190, 2509 AD The Hague, The Netherlands or telefax 3170 3814034.

#### **Woman, Water, Sanitation, Annual Abstract Journal**

The Hague: IRC International Water and Sanitation Centre  
Subscription: for 3 issues US\$ 30 surface mail, US\$ 35 airmail  
or US\$ 17 for single copies  
Published: annually

Contains a state-of-the-art summary and some 50 abstracts of selected books, reports and audio-visual materials in 12 subject categories.



## IRC Publications

IRC's Technical Paper Series cover a wide range of subjects. The series aims to integrate technical and non-technical issues, such as community involvement and operation and maintenance of water supply and sanitation facilities. Prepared jointly by IRC staff and consultants, these publications are written for those working in the community water supply and sanitation sector.

Ongoing work at IRC and related organizations is presented in the Occasional Paper Series. The Training Series provides practical information and knowledge for use in training of various target groups. The Reference Series includes directories, inventories, a thesaurus, glossaries and other information tools in support of technical information exchange for community water supply and sanitation. These publications are designed to assist both documentalists and technical staff with information collection, storage, retrieval and use.

IRC titles of related interest include:

### INVENTORY OF SELECTED TRAINING MATERIALS FOR WATER SUPPLY AND SANITATION

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

(RS 7) 154 pages 1991

### INFO-IMPACT

Report on a Working Meeting of Information Exchange for Water Supply and Sanitation

(RS 5) 37 pages 1988

### HYGIENE EDUCATION IN WATER SUPPLY AND SANITATION PROGRAMMES

Literature review with selected and annotated bibliography

(TP27) 160 pages 1988

### WOMAN, WATER, SANITATION

An annual abstract journal

(AJW1) 48 pages 1991