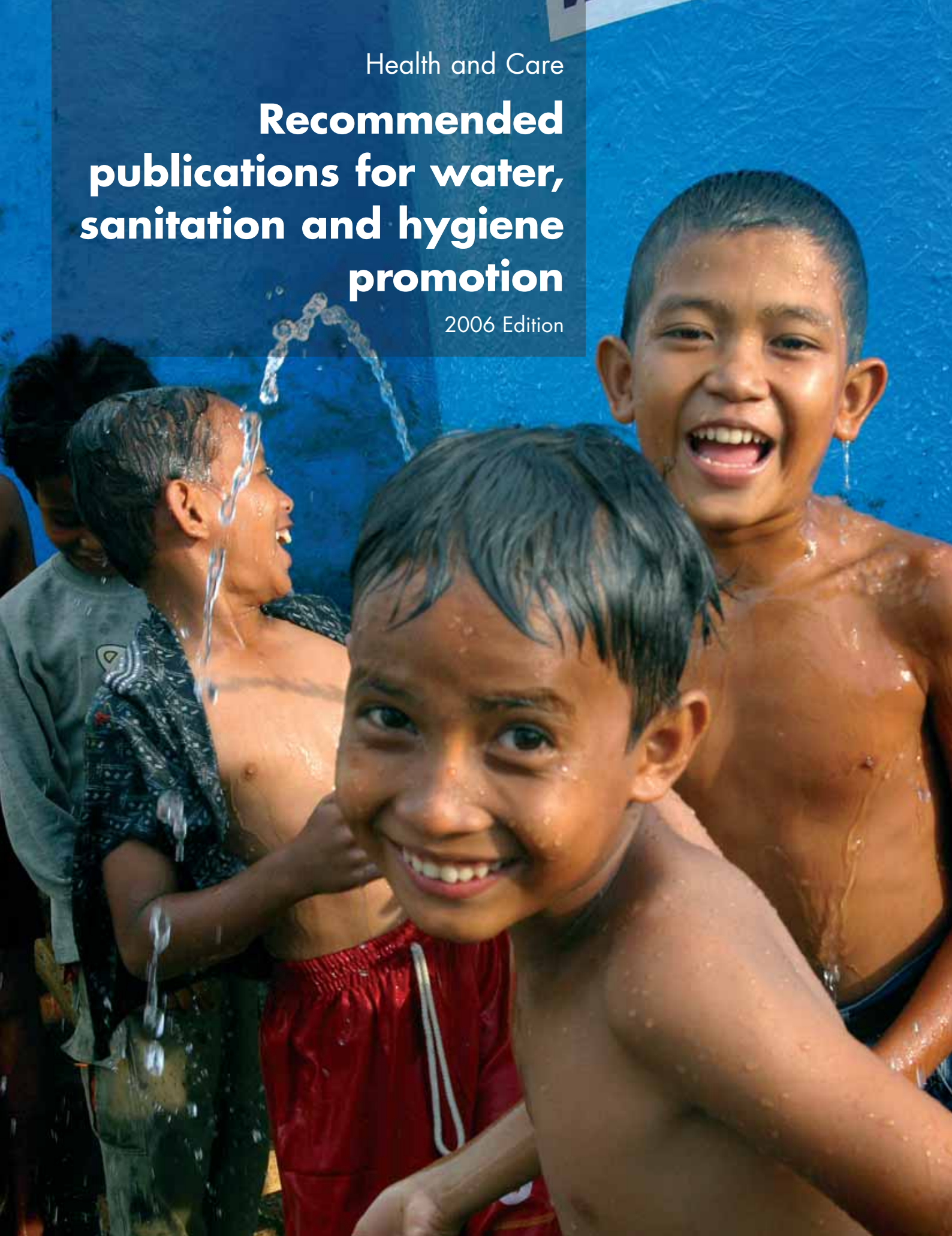


Health and Care

Recommended publications for water, sanitation and hygiene promotion

2006 Edition



International Federation
of Red Cross and Red Crescent Societies

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Other photos: International Federation of Red Cross and Red Crescent Societies

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2006

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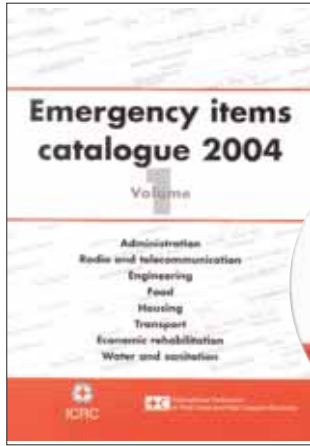
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Produced by the International Federation



Emergency items catalogue 2004 Vol. 1, 2 and 3 and CD-ROM version

Developed by International Committee of Red Cross and International Federation of Red Cross and Red Crescent Societies

The catalogue is intended to facilitate the selection and acquisition of the suitable items notably during the first phase of an emergency. Standardization is intended to facilitate field operations and logistics support, improve quality insurance, communication and reporting, and also to avoid inappropriate donations. The catalogue provides generic technical specifications for essential items.

The catalogue provides guidance and assistance to:

- Operational users and decision makers and also donors and national authorities concerned with planning, budgeting and execution of assistance programmes in emergency situations.
- Purchasers and suppliers involved with the supply of emergency items.

Please visit our Website
<http://www.ifrc.org>

Water and sanitation
Emergency Response Unit

Agua y saneamiento
Emergency Response Unit

Eau et assainissement
Emergency Response Unit

The water and sanitation ERU is made up of four modules:

1. Treatment and supply module
2. Distribution and trucking module

L'ERU spécialisée en eau et assainissement est composée de quatre modules.

1. Module de traitement et d'approvisionnement
2. Module de distribution et de transport routier

International Federation of Red Cross and Red Crescent Societies

Fédération internationale des Sociétés de la Croix-Rouge et du Croissant-Rouge

ERU water and sanitation modules

In 1996 the International Federation set up emergency response units (ERUs), which have responded to the needs of vulnerable in the major disasters. ERUs are part of the International Federation's disaster response tools. They provide specific support or direct service when local facilities are either destroyed, overwhelmed by needs, or do not exist. Using a standardized modular system of equipment and pre-trained teams of National Society technical specialists, ERUs can be deployed within 48 hours to 72 hours. Since 1996, 40 water and sanitation ERUs have been deployed.

They are six types of ERUs, each offering a different specialist activity. These are as follow:

- Basic health care
- Logistics
- Water and sanitation
- Referral hospital facilities (field hospitals)
- Telecommunications
- Relief

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<http://www.ifrc.org>



ERU (Emergency Response Unit)
Water and sanitation operating manual and part list for:

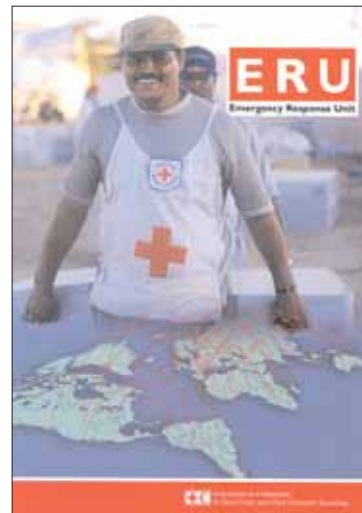
Describes very detailed the technical composition and the design of the new four modules which form the water and sanitation ERU (Treatment and Supply, Distribution and Trucking, Specialised Wat-San, Mass Sanitation Modules). Field staff may use the manual during ERU deployments, for training purposes and as reference tool.

Please visit our Website
<http://www.ifrc.org>

For more information, please contact (jocelyne.barbe@ifrc.org)

Issue 2002
CD-ROM included in the publication

Exist also in French



ERU (Emergency Response Unit)
International Federation of Red Cross and Red Crescent Societies

To improve response time to emergencies, the idea was to put together pre-trained teams of specialist volunteers – who already knew each other – and pre-packed sets of standardised equipment ready for immediate use.

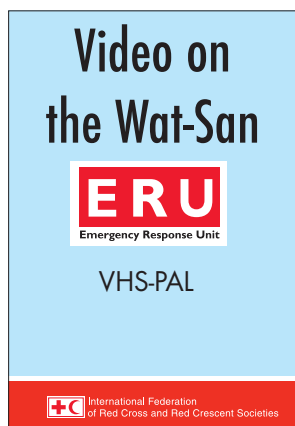
ERUs soon demonstrated their worth. They speeded up disaster response and enabled the Federation to better coordinate combined National Society operations. The 2001 earthquake in Gujarat, India, was a good example, where six ERUs, directly involving eight National Societies, were deployed within 48 hours.

The units are also designed to enable the Federation to be more responsive to local needs in the short-term and, on occasions, develop long-term capacity. After Hurricane Mitch in Honduras, the Swedish and Austrian Red Cross teams stayed to provide water purification as well as train and advise local NGOs and villagers in small water and sanitation projects.

The ERU brochure describes the background and current status of the ERU system within the Federation. It explains briefly the different ERU's, the deployment process and information on recent deployments. The brochure may be used as handout, for training purposes and for marketing.

Please visit our Website
<http://www.ifrc.org>

VHS/PAL Video on the Wat-San ERU



The Video was produced in 1997 with support of the Austrian and German Red Cross Societies. The Video intends to give an overview of the technical possibilities of the different components of the Wat-San ERU and may be used for training and marketing purposes. The Video is 19min. long and available in English and German language.

Video: "PHAST Experience in El Salvador"

This video shows the experience improving PHAST Methodology under the water and sanitation rehabilitation program caused by the earthquakes in 2001, in El Salvador.

It has two mainly focus:



- The Methodology itself and how it was improved in El Salvador with volunteers of Red Cross, University of El Salvador and Health Promoters
- Some interviews with community beneficiaries and their opinion about the Methodology

Language: Available in English and Spanish

Please visit our Website
<http://www.ifrc.org>



ARCHI 2010

African Red Cross and Red Crescent Health Initiative

Better health for Africa's vulnerable individuals and groups served by the Red Cross/Red Crescent Societies (RC/RC) in Africa by mobilizing the power of humanity.

By 2010, the Federation Secretariat will facilitate and strengthen the organisational and technical capacities of member National Societies. The Secretariat will focus its efforts to advise, coordinate, and technically support the core activities and interventions which are outlined in the Red Cross Red Crescent health strategy in Africa (Education and Information, Food and Nutrition, Water and Sanitation, Mother and Child Health Care, Combating Communicable Diseases, Fighting local endemic diseases, and providing adequate treatment to most frequent ailments and lesions and Provision and production of essential drugs).

At this day 25 toolkits in 3 languages (English, French, Portuguese) have been developed. Some examples are given to you specifically on Water and Sanitation activities (Clean Water, Latrines, Clean Up Campaign, Diarrhoea). Toolkits are using by our delegates and volunteers.

For more information please visit our Website
<http://www.ifrc.org/what/health/archi/index.htm>



Lessons learned from the regional water and sanitation programme, Southern Africa region 1997-2002)

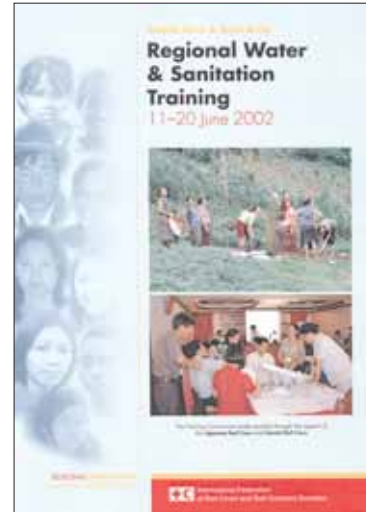
Uli Jaspers, Health and Care Department, IFRC Geneva
Robert Fraser, Regional Water and Sanitation Co-ordinator,
East Africa

The objective of this document and presentation is to provide assistance to Regional Delegations and Delegates who are intending to establish a regional water and sanitation programme or who have already established such a Programme and who may benefit from experiences and observations gained elsewhere. Secondly, we hope this may provide assistance to any Regional Programme initiative.

We take for granted that Regional Programmes, particularly those such as water and sanitation who fall under the Health and Care umbrella, see their role and goals in succeeding to a significant degree in 'scaling-up' of NS activities (a potential quantitative indicator of success) and resultant increased impact (a potential qualitative indicator of success) while operating through and providing guidance and capacity building to ONS's as the primary implementers.

Please visit our Website
<http://www.ifrc.org>

To receive a copy please contact (jocelyne.barbe@ifrc.org)



South East and East Asia regional water and sanitation training

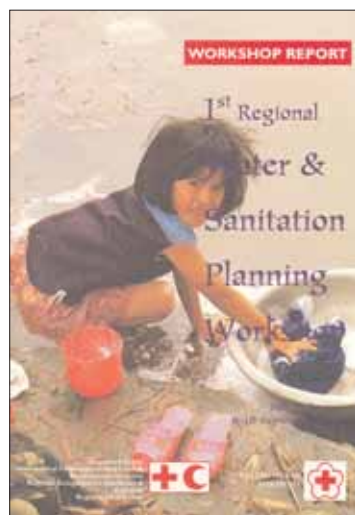
With the support of the Japanese Red Cross
and Danish Red Cross

Water and Sanitation are essential for improving living standards and economic development.

This is as true for South East and East Asia as it is for other regions in the world. Limited access to water and sanitation may occur because of limited natural resources in the region, poor available infrastructure or limited skills and knowledge on the staff and organisational level for exploring the available water sources. Threats to environmental health come from the pollution of water resources, lack of wastewater treatment, poor management of sanitation and solid waste.

In order to address the tremendous shortfall of water supply and sanitation, through the support of the Japanese Red Cross and Danish Red Cross, the Bangkok Regional Health Unit (RHU) of the International Federation of Red Cross and Red Crescent Societies, the International Water and Sanitation Centre (IRC) organised a tailor-made training workshop on water and sanitation to address emergency and development programmes for 25 manager/technical water and sanitation staff, health advisors and country technical staff of Red crodd/Red Crescent National Societies from Southeast and East Asia. This report describes the proceedings and act as a reference for future use.

Please visit our Website
<http://www.ifrc.org>



1st regional water and sanitation planning workshop

Bali, Indonesia

International Federation of Red Cross and Red Crescent Societies

Following this and hosted by the Indonesian Red Cross Society, the 1st Regional Water and Sanitation Planning Workshop was held in September 1999 in Bali, Indonesia. The workshop was aimed for National Society participants in the region to jointly develop their Regional Water and Sanitation Programme 2000-2001, as part of the Federation's regional Assistance Strategy in water and sanitation.

For more information, please contact:
Tanh Le – Regional Water and Sanitation Delegate
(ifrc16@ifrc.org)



Water and sanitation mission assistant

These CD-ROMs are intended to provide important documents and standards for the work of water and sanitation delegates, their counterparts and Health/Wat-San staff of National Red Cross and Red Crescent Societies in a user friendly way as working aid during missions and to facilitate briefings and presentations.

This is an updated version – March 2006

Please visit our Website
<http://www.ifrc.org>

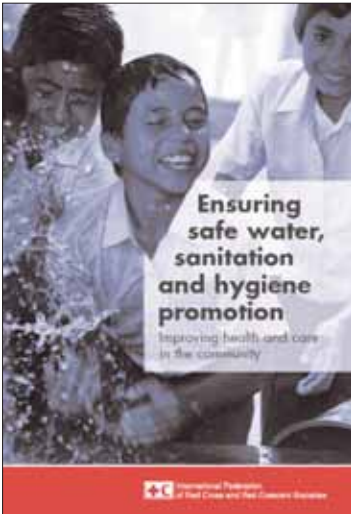
To receive a copy, please contact Jocelyne Barbe
(jocelyne.barbe@ifrc.org)



IEC material database

This CD-ROM is a collection of hygiene promotion factsheets, drawings, posters and photo gallery.

To receive a copy of the CD-ROM, please contact: libertad.gonzalez@ifrc.org



Ensuring safe water, sanitation and hygiene promotion – Improving health and care in the community

Water is life. It is so integral to our lives that planning for appropriate water use and safe disposal of human waste tends to be overlooked, even through one of the greatest threats to the health of much of the world’s population is the lack of access to a safe water supply and to basic sanitation.



Global Water and Sanitation Initiative (GWSI)

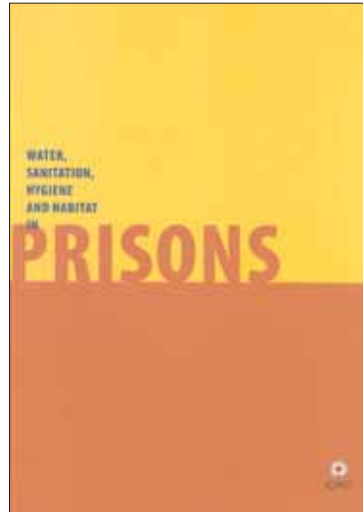
The GWSI outlines a common approach among National Societies to establish larger-scale, longer-term sustainable water and sanitation programs to contribute more effectively in meeting the MDGs. The GWSI in combination with the MDG initiative and the launch of a 2nd UN Decade for Water (2005-2015) intends to generate more available resources for Red Cross and Red Crescent water and sanitation projects. During this time, we plan to target at least an additional 5 million vulnerable people worldwide.



Guidelines for emergency assessment – October 2005

These guidelines provide advice on the organization of emergency assessments. The order of the chapters is roughly equivalent to the order in which tasks are carried out in a real assessment – planning, fieldwork, analysis and reporting. However, assessment is not a linear process and most of these tasks overlap. We suggest, therefore, that you first read the entire document in order to understand the structure and to familiarize yourself with the contents. When using the guidelines to manage a real assessment, you will find yourself moving backwards and forwards through the document. The contents of each section are identified on the outer margin of each page to help you do this.

Please visit our Website
<http://www.ifrc.org>



Water, sanitation, hygiene and habitat in prisons

The handbook provides a summary of the technical expertise gained by ICRC engineers when dealing with environmental engineering problems commonly found in places of detention. Detailed drawings are used to outline solutions on a range of related issues such as water supply, sewage and waste disposal, food preparation, vector control, general hygiene and health. This handbook is intended for all those who work in prisons and who can contribute to the improvement of the conditions of detention for persons deprived of their freedom.

<http://www.icrc.org/Web/Eng/siteeng0.nsf/iwpList265/1ECAB811B7A8C920C125702000517B64>

Produced with support of the International Federation



The Sphere Project – 2004 edition

Humanitarian Charter and Minimum Standards
in Disaster Response

Published by the Sphere Projects
Distributed by Oxfam Publishing

The Sphere Project is an NGO and Red Cross/Red Crescent initiative to enhance the accountability of the humanitarian system, primarily although not exclusively, to those persons who have a right to protection and assistance in disasters and seeks to define the basic minimum requirements to sustain life with dignity.

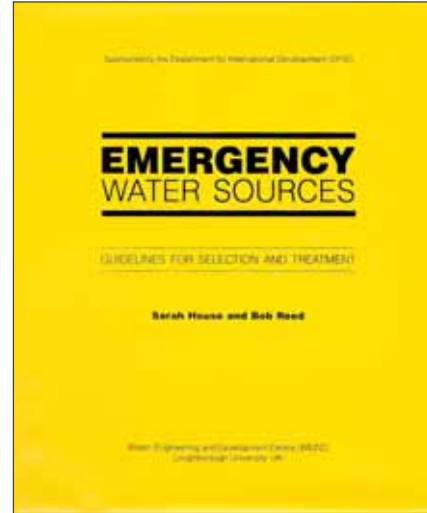
In a remarkable international initiative aimed at improving the effectiveness and accountability of disaster response, the Sphere Humanitarian Charter and Minimum standards in Disaster Response sets out for the first time what people affected by disasters have a right to expect from humanitarian assistance.

The cornerstone of this book is the Humanitarian Charter, which is based on the principles and provisions of international humanitarian, human rights and refugee law, and on the principles of the Red Cross and NGO Code of Conduct. It describes the core principles that govern humanitarian action and asserts the right of populations to protection and assistance. The Charter is followed by minimum standards in five core sectors – **water supply and sanitation**, nutrition, food aid, shelter and site planning, and health service.

The second, revised edition incorporates feedback from field offices and technical and gender reviews.

Languages: English, French, Spanish, Portuguese, Russian
To receive a copy, please contact: jeanine.guidera@ifrc.org

ISBN 92-9139-097-6



Emergency Water Sources

Guidelines for selection and treatment

Published by WEDC, Loughborough University

These guidelines have been designed to help those involved in the assessment of emergency water sources to collect relevant information in a systematic way, to use this information to select a source or sources and to determine the appropriate level of treatment required to make the water suitable for drinking.

The guidelines, however, are not limited to the selection and treatment of water sources. The information collected will also be useful for: the design and costing of the water supply system; the ordering of material and equipment; the organization of human resources; and the implementation of the project.

ISBN 0 906055 50 4



Emergency Sanitation

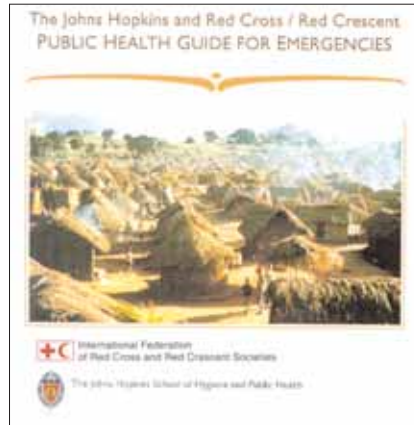
Assessment and programme design

Peter Harvey, Sohrab Baghri and Bob Reed
Published by the Water, Engineering and Development Centre
Loughborough University UK

This book is designed to assist those involved in planning and implementing emergency sanitation programmes. The main focus of the book is a systematic and structured approach to assessment and programme design. It provides a balance between the hardware (technical) and software (socio-cultural, institutional) aspects of sanitation programmes, and links short-term emergency response to long-term sustainability. The book is relevant to a wide range of emergency situations, including both natural and conflict-induced disasters, and open and closed settings. It is suitable for field technicians, engineers and hygiene promoters, as well as staff at agency headquarters.

DROP, International Committee of Red Cross, MSF, OXFAM, UNHCR and the Federation of Red Cross and Red Crescent Societies have acted as peer reviewers for this research contract.

ISBN 1 84380 005 5



Public Health Guide for Emergencies

The John Hopkins and Red Cross/Red Crescent

This guide is designed to serve as a reference for such training for government, Red Cross, and local non-government groups. Although the focus is on emergency situations, extensive coverage is given to pre- and post-emergency activities for which many local organisations are taking an increasing responsibility. The primary focus has been emergencies in Africa, yet the principles and methods are equally suitable for most parts of the developing world.

Please visit our Website
<http://www.ifrc.org>

To receive a copy, please contact (jocelyne.barbe@ifrc.org)



Health library for disasters

The Global Virtual Library of Essential Information Resources on Public Health for Disasters and Complex Emergencies (2003 Edition)

Health Library for Disasters is a large selection of books made by World Health Organisation (WHO) in collaboration with the International Committee of the Red Cross, International Federation of Red Cross and Red Crescent Societies, United Nations High Commissioner for Refugees, Sphere Project, United Nations Children's Fund.

Also on the internet at:

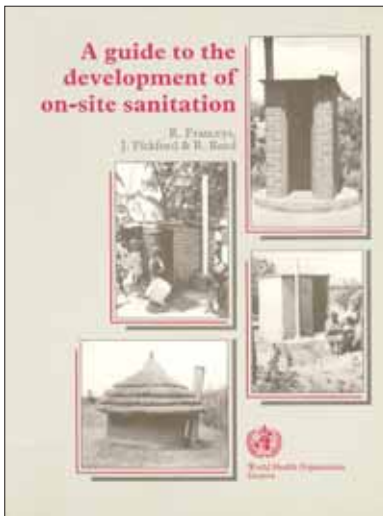
- www.who.int/eha/disasters/
- www.paho.org/disasters



Health and Care virtual library

This CD-ROM is a comprehensive collection of publications, technical documents, guidelines and other useful references produced by the Health and Care department.

Produced by others

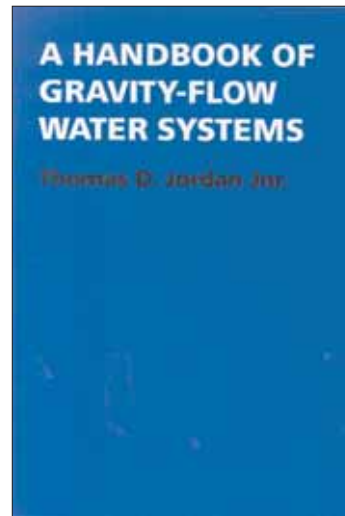


A guide to the development of on-site sanitation

R. Franceys, J. Pickford and R. Reed
Published by World Health Organisation (WHO)

This book provides in-depth technical information about the design, construction, operation and maintenance of the major types of on-site sanitation facility, from simple pit latrines to aqua privies and septic tanks, with numerous practical design examples. Recognizing that the introduction of on-site sanitation systems involves considerably more than the application of simple engineering techniques, the authors describe in detail the planning and development processes, and the financial and institutional factors that will need to be taken into account. Particular emphasis is given to the need to involve the community at all stages from planning to evaluation, to adapt projects and programmes to the local situation, and to provide continuing support to the community after the system is installed.

ISBN 92 4 154443 0



A handbook of gravity-flow water systems – for small communities

Thomas D. Jordan Jnr

This handbook is written with the intention of collecting together all the knowledge, theory and practices necessary for the surveying, designing and construction of gravity-flow drinking water systems for rural communities. The author emphasizes the fundamental principles of design, illustrated with several general examples of successful structures, rather than presenting strict and inflexible “standardized designs”.

ISBN: 0 94668 850 8



Emergency Vector Control Using Chemicals

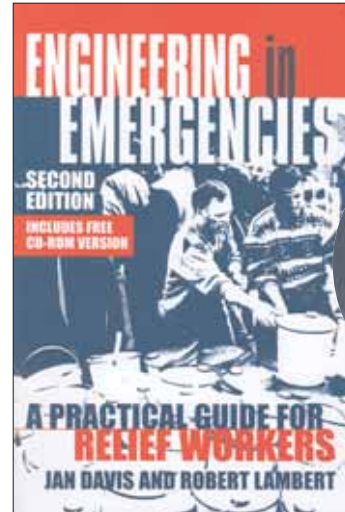
A handbook for relief workers

Christophe Lacarin and Bob Reed

The control of vectors that transmit diseases in emergencies is critical to the prevention of epidemics. This handbook describes how such vectors can be identified and controlled using chemicals. Aimed at non-specialists such as logisticians, engineers and health workers, it provides advice on identifying the responsible vector, selecting the appropriate control chemical and the means of application, together with advice on planning an implementation programme.

Published by the
Water, Engineering and Development Centre
Loughborough University UK

ISBN 0 906055 65 2



Engineering in Emergencies (book and CDROM)

A practical guide for Relief Workers

Jan Davis and Robert Lambert

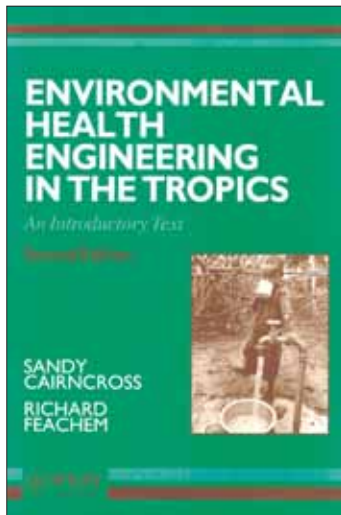
Armed conflict, drought, famine and other serious disasters create emergencies in which large numbers of people require urgent help. Engineering in Emergencies is the practical handbook for all relief workers involved in giving humanitarian assistance at such times. It provides critical information needed to implement an effective response in the aftermath of an emergency.

The second edition has been extensively revised and updated based on feedback from users in the field, including experience from cooler climates and European emergencies. It includes all the key features of the first edition, in particular the coverage of both technical topics such as water and sanitation as well as managerial skills and personal effectiveness.

The second edition features:

- Two completely new chapters on personal security and telecommunications
- Recent developments and practice in humanitarian relief
- Improved indexing
- New appendices of useful websites and the Sphere minimum standards
- Copious cross-referencing for ease of use
- New and revised illustrations, tables and checklists throughout.

ISBN 1-85339-545-5



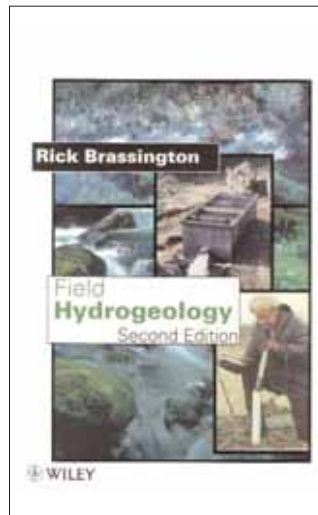
Environmental Health Engineering in the Tropics

An Introduction Text (Second Edition)

Sandy Cairncross -
UNICEF/WHO Interagency Team for Guinea Worm
Eradication - Ouagadougou, Burkina Faso

Many major infectious diseases in tropical and developing countries are amenable to control by environmental measures. This book describes these infections and the measures that may be used effectively against them. The infections described include the diarrhoeal diseases, the common gut worms, guinea worm, schistosomiasis, malaria, bancroftian filariasis and other mosquito-borne infections. The environmental interventions that receive most attention are domestic water supplies and improved excreta disposal. Appropriate technology for these interventions, and also their impact on infections diseases, are documented in detail. The book is intended both for those from an engineering background and those whose training is medicine or public health.

ISBN 0 471 93885 8



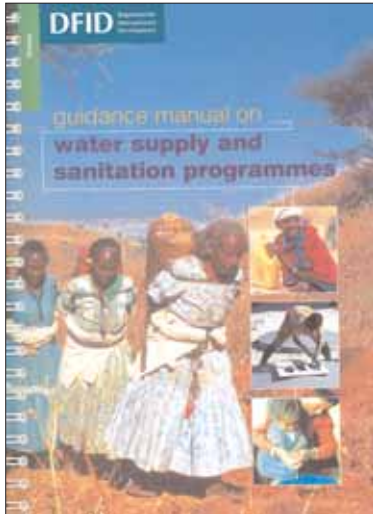
Field Hydrogeology – Second edition

R. Brassington

This book follows this systematic approach to completing a hydrogeological study and explains how to decide on the measurements which are needed and on the instruments and techniques used to make them. Measurements of groundwater levels, rainfall and evaporation, spring and stream flows and the use of groundwater tracer techniques are covered. There is a great deal of practical information on all aspects of planning and completing field investigations and on the interpretation of field evidence. Advice on safety aspects of field work is also included. This second edition has been fully revised and updated to cover advances in the use of electronic instruments and the needs of the environmental regulators.

ISBN 0-471-97347-5

<http://www.amazon.fr/exec/obidos/ASIN/0471973475/403-0406140-3706006>



Guidance manual on water supply and sanitation programmes

This manual has been prepared for DFID by WELL (Water and Environmental Health at London and Loughborough)

Published by WEDC for DFID

This Manual has been prepared as a tool to help improve DFID's support for water supply and sanitation projects and programmes in developing countries. Its particular focus is on how DFID assistance can best meet the needs of the urban and rural poor for water and sanitation services. To facilitate the targeting of the poor reflects the objective of UK international development support set out in the White Paper on International Development better education, health and opportunities for poor people – one of three objectives contributing to the general aim the elimination of poverty in poor countries.

Professional engineers, health scientists, economists, and sociologists are all closely involved in the achievement of sustainable water and sanitation services for the poor. Each needs to know not only his/her own role and objectives, but also the experiences and approaches which guide the others. The comparatively lengthy discussion of key principles and practices in Section 2 of the manual is intended to contribute to this cross-fertilization. Specialists are urged to read the sections related to other disciplines and to accept the extended elaboration of concepts which should be familiar to them in their own sections.

ISBN 0906055 58 X



Guidelines for drinking-water quality – Third edition

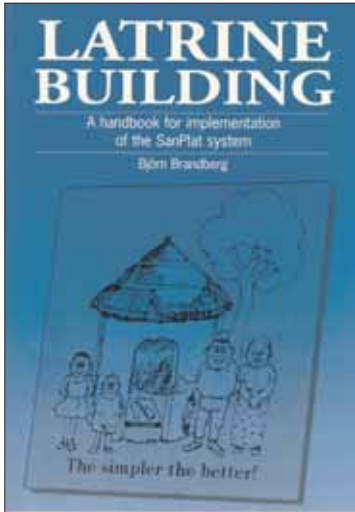
The first and second editions of the WHO Guidelines for Drinking-water Quality were used by developing and developed countries worldwide as the basis for regulation and standard setting to ensure the safety of drinking-water. They recognized the priority that should be given to ensuring microbial safety and provided guideline values for a large number of chemical hazards.

This third edition of the Guidelines has been comprehensively updated to take account of developments in risk assessment and risk management. It describes a “Framework for Drinking-water Safety” and discusses the roles and responsibilities of different stakeholders, including the complementary roles of national regulators, suppliers, communities and independent “surveillance” agencies.

Developments in this edition of the Guidelines include significantly expanded guidance on ensuring the microbial safety of drinking-water – in particular through comprehensive system-specific “water safety plans”. Information on many chemicals has been revised to account for new scientific information and information on chemicals not previously considered has been included. For the first time, reviews of many waterborne pathogens are provided.

Recognizing the need for different tools and approaches in supporting large and community supplies, this edition continues to describe the principal characteristics of the approaches to each. New sections deal with the application of the Guidelines to specific circumstances, such as emergencies and disasters, large buildings, packaged/bottled water, travellers, desalination systems, food production and processing and water safety on ships and in aviation.

http://www.who.int/water_sanitation_health/dwq/gdwq3/en/



Latrine building

A handbook for implementation of the SanPlat system

Björn Brandberg

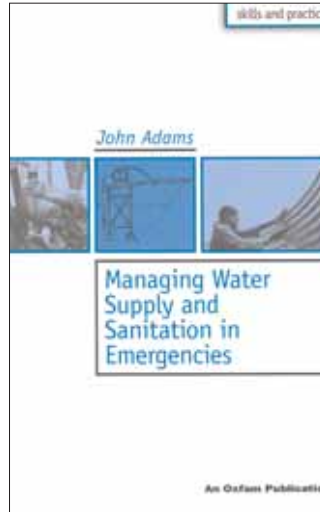
The SanPlat system for building improved latrines is a simple, cost-effective approach to solving one of the world's biggest and most ignored problems. Approximately three billion people - two-thirds of the population in developing countries - have no latrine, and this is a significant factor in the millions of deaths each year from faecal-borne diseases.

Diseases such as diarrhoea and parasitic infections do not attract media attention like wars and natural disasters, but they take more lives and, indirectly, jeopardize developing countries' economic growth by damaging people's health and hampering their ability to work. Better sanitation and health education are essential to combat this drain on resources.

The SanPlat has been successfully introduced by communities in many countries using local skills, materials and technologies. This book shows in details how to make SanPlats, and also describes how to implement a latrine building programme, including hygiene education, ways of making the system acceptable to users, and advice on practical problem solving.

The handbook contains useful information for the practical latrine builder, and also for those at management and planning levels concerned with sustainable health improvements in rural and peri-urban areas. Promising experience in many countries suggests that this system will be of interest to everyone working in health care, integrated community development and environmental management as well as sanitation provision in the South.

ISBN 1-85339-306-1



Managing water supply and sanitation in emergencies

John Adams

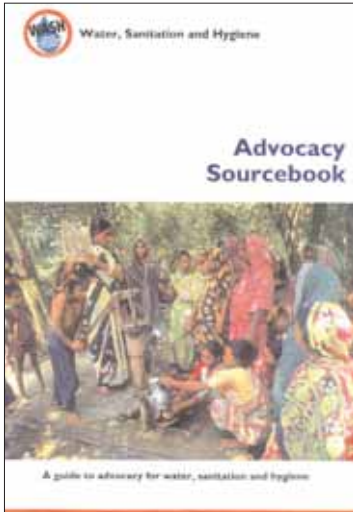
An Oxfam Publication

This book is based on a public-health approach to the provision of water and sanitation in emergencies: an approach that is information-based (drawing on reliable, relevant data) and people-based (aiming for maximum impact on the health of the whole population, but sensitive to the needs of particularly vulnerable groups). It emphasizes the need for a co-ordinated and phased response, which adapts to meet constantly changing needs.

It will be useful to non-technical managers of disaster relief programmes who need to understand how water supply and sanitation work; and to technicians and engineers who need to see their work in a broader context and make decisions based on principles of equity and participation. Topics include site-selection, disposal of excreta and solid waste, drainage, and hygiene promotion. The text draws on Oxfam's practical experience over the past ten years in a broad range of conditions, rural and urban, around the world.

John Adams has wide experience of public-health engineering in emergencies, most recently with Oxfam UK, and currently as Emergency Program Coordinator with Community Aid Abroad (Oxfam Australia).

ISBN 0 85598 378 7



Advocacy Sourcebook – A guide to advocacy for water, sanitation and hygiene

This Sourcebook has grown out of a partnership between the Water Supply and Sanitation in Collaborative Council (WSSCC) and WaterAid, and builds on WaterAid's successful Advocacy Sourcebook, published in 2001



Out in the cold

Emergency water supply and sanitation for cold regions

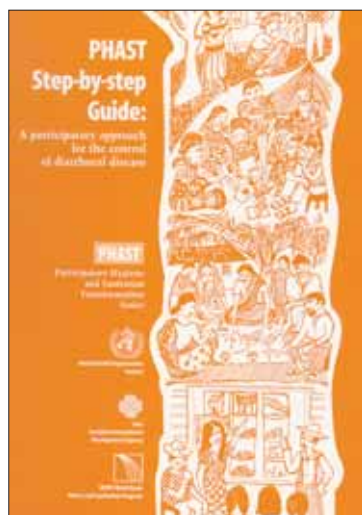
Mark Buttle and Mickael Smith

Published by WEDC, Loughborough University 1999

The book has been designed for all humanitarian workers, especially managers, engineers and logisticians working in ex-Soviet states, China, Eastern Europe or any other country in cool temperature or cold regions. It provides specific supplementary information that can be used together with information given in more general emergency manuals, details or which are given indise. Techniques are described simply, although engineering design recommendations are also included.

ISBN 1 84380 077 2

<http://books.google.ch/books?hl=fr&ie=UTF8&q=out+in+the+cold+Loughborough+University>



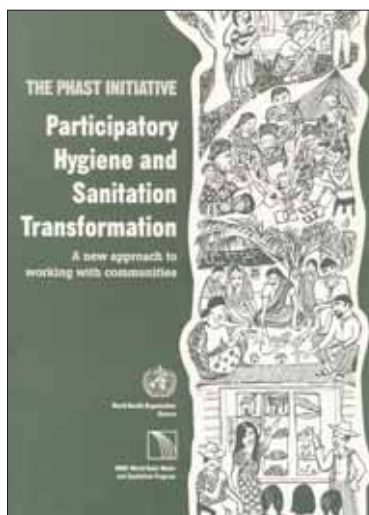
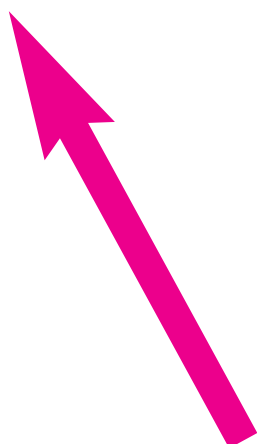
PHAST

Step-by-step Guide: A participatory approach for the control of diarrhoeal disease

This step-by-step guide can help you help communities improve their environments and manage their water and sanitation facilities, particularly for prevention of diarrhoeal disease. You won't need to do a lot of additional background reading, but you will need training in either the PHAST or SARAR methodology upon which this guide is based. You will also need some technical knowledge about diarrhoeal disease transmission to share with community members and to guide discussion.

The participatory techniques used in the PHAST initiative have proved to be very successful and rewarding for communities and for facilitators. So much so, that community workers who took part in the initial pilot study to test the use of participatory techniques for improving hygiene behaviours did not want to go back to their previous methods. They wanted to continue with the participatory approach because results were much better and the process was more enjoyable. But don't simply take our word for it. Invest time in learning about participatory techniques and how to use them. Enquire about training opportunities or ask to take part in ongoing projects that use a participatory approach.

WHO/EOS/98.3



The PHAST initiative

Participatory Hygiene and Sanitation Transformation
A new approach to working with communities

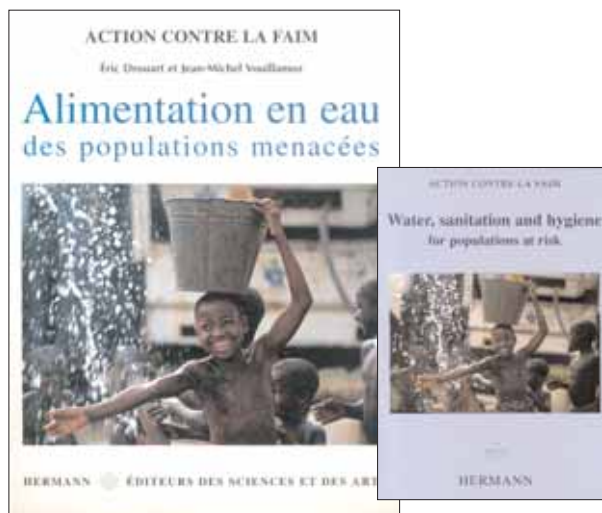
PHAST stands for Participatory Hygiene and Sanitation Transformation. It is an innovative approach designed to promote hygiene behaviours, sanitation improvements and community management of water and sanitation facilities using specifically developed participatory techniques.

This document describes the underlying principles of the approach, the development of the specific participatory tools, and the results of the field tests done in four African countries.

PHAST is unique because the underlying basis for the approach is that no lasting change in people's behaviour will occur without understanding and believing. To summarize the approach, specific participatory activities were developed for community groups to discover for themselves the faecal-oral contamination routes of disease. They then analyze their own hygiene behaviours in the light of this information and plan how to block the contamination routes.

The approach was field tested in four African countries: Botswana, Kenya, Uganda and Zimbabwe in both rural and urban areas. The results were very encouraging. The approach involved community groups in a way never before possible. Groups planned ways to improve hygiene behaviours in the community, to build or improve facilities and they made plans for operation and maintenance of facilities. The PHAST initiative laid the ground work for communities to take their own development forward. Even though the approach was tried in different countries and different types of communities, the results were equally inspiring. The approach can be replicated successfully provided a number of supporting conditions exist.

WHO/EOS/96.11



Alimentation en eau des populations menacées

Water, sanitation and hygiene for populations at risk

“Action contre la Faim »

Access to water and sanitation is one of the major challenges for the 21st century. According to WHO (2004), 1.1 billion people do not have access to safe water and 2.4 billion people do not have access to basic sanitation facilities. As a consequence, around 4 million people, the majority of whom are children, die every year from water and sanitation-related diseases.

For 25 years, in line with its vocation of fighting hunger, the Action contre la Faim international network has been implementing field programmes aimed at supporting populations in humanitarian situations, along with research and technical development in order to optimise its interventions. This book is the result of this experience and presents methods and techniques of intervention, not only to provide and ensure access to water - groundwater prospecting, drilling, well digging, constructing spring catchments and gravity supply systems, treatment and distribution of surface water and collection of rainwater - but also sanitary measures, hygiene promotion, capacity building of communities and local partners, and much more. This manual is a revised and extended version of the first, French edition, *Alimentation en eau des populations menacées*, by Éric Drouart and Jean-Michel Vouillamoz (Hermann, 1999); it has been deeply reviewed, revised, updated and extended, under the coordination of Hubert Sémiond and Francisco Gonzalez. It focuses on efficient and concrete action, as well as on context and needs analysis. It is intended for those concerned by programmes involving water supply, sanitation, hygiene promotion and local capacity building

www.actioncontrelafaim.org

www.puf-lib.com

ISBN: 2 7056 6499 8

ISBN of the French version 2 7056 6386 X



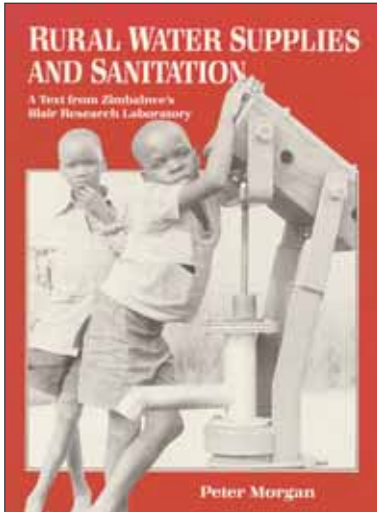
Public health engineering in emergency situation

A handbook for implementing health programmes in deprived environments, in particular in camps of displaced persons.

Public Health engineering comes under the general heading of health and is at the origin of a number of diseases linked to the lack of hygiene, the quality and the quantity of water, waste and insect and rodent vectors. These diseases may not necessarily kill; but they are always responsible for deterioration in the physical condition of individuals.

For long considered as a “specialist’s field” public health engineering has now become an integral part of preventive measures on a par with vaccination, nutrition, mother-child care and so forth. The Public health engineering handbook includes data sheets that may be adapted to local customs as well as the logistical and financial means available in the field. This guide emphasizes the “three A’s” for all sanitation installation: Socially Acceptable (a good knowledge of the population concerned is important), Appropriate (technically well adapted) and Affordable (moderate costs).

Also available in French
Médecins Sans Frontières (MSF)



Rural water supplies and sanitation

A text from Zimbabwe

Peter Morgan

This volume represents over fifteen years of research by the field team of the Blair research Laboratories supported by the Ministry of Health in Harare, Zimbabwe. All the research has focused on work carried out in the field. The emphasis is on practical, realistic and appropriate solutions to the fundamental problems in establishing and maintaining clean water supplies in areas without ready access to a reliable source of water.

The text is divided into two sections. The first, WATER SUPPLIES, is concerned with gaining access to a water supply, and ensuring that is a clean supply – the essential factor behind good health for all. The second section, RURAL SANITATION, deals with the actual construction and maintenance of the Blair Latrine, and its variants.

ISBN 0 333 48569 6



Surface water treatment for communities in developing countries

Christopher R. Schulz, Daniel A. Okun

This book is intended for planners and engineers responsible for the design of water treatment plants to be built in Africa, Asia and Latin America. The book will help engineers designing new water plants or upgrading old ones in developing countries who need information concerning appropriate and economical water treatment. It will also help planners and policy makers to take an initial step towards the development of simple design criteria and standard design manuals that are tailored for local conditions. The book discusses the basic considerations that must be addressed before the actual design of water treatment plants, and then presents a series of appropriate treatment requirements and processes for plants that are to be designed for communities in developing countries, covering the topics of the pre-treatment, chemicals and chemical feeding, hydraulic rapid mixing, hydraulic flocculation, sedimentation and filtration.

ISBN 1 85339 142 5



Sustainable sewerage

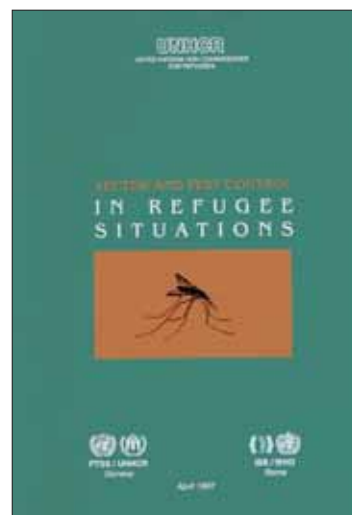
Guidelines for community schemes

R.A. Reed

Sanitation is one of the most basic infrastructure services and one which many poor communities find themselves unable to afford. In most countries, the demand for sewerage greatly exceeds the resources available to provide it. There are, however ways in which conventional schemes can be modified – or new schemes planned – so that the costs both of construction and of maintenance can be brought within the reach of more people.

This handbook describes these schemes and suggest objective methods of prioritizing communities' needs for sewerage. It surveys the planning, selection, design, management and maintenance of community schemes, and provides technical and financial suggestions on cost-effective practice and procedures. Non conventional options are discussed as well as the conventional approach to sewerage design and implementation.

ISBN 1 85339 305 3



Vector and pest control in refugee situations

UNHCR

This manual grew out of events which occurred in the Great Lakes region of East Africa (Rwanda, Burundi, Tanzania, Uganda and Upper-Zaire). It reflects the vector-control problems encountered in the refugee camps of the region and proposes a systematic approach to resolving them in the short term through chemical means and, over the long term, through environmental sanitation combined with health education for the communities concerned.

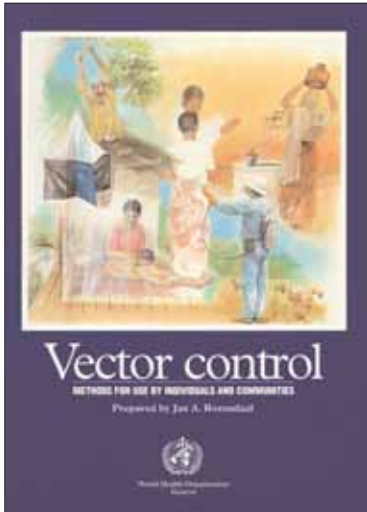
Copies of this publication can be obtained through your nearest UNHCR office, or by writing to the following address:

PTSS

UNHCR Headquarters

P.O. Box 2500

CH-1211 Geneva 2 Dépôt – Switzerland



Vector control

Methods for use by individuals and communities

Prepared by Jean A. Rozendaal (World Health Organization)

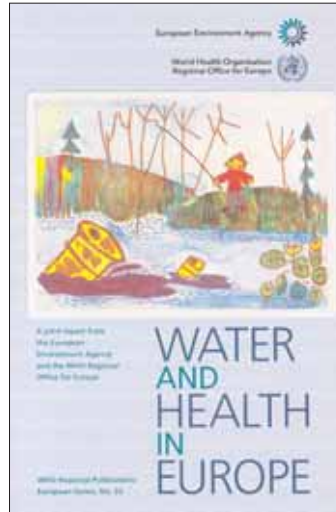
Disease transmitted by arthropods and freshwater snails are among the most common causes of illness and premature death in tropical and subtropical countries, to a lesser extent, in temperate zones also. In addition to their direct effects on health, such diseases – which include malaria, filariasis, leishmaniasis, schistosomiasis, dengue and trypanosomiasis – hinder economic development, as a result of lost working hours and the high costs of treating those affected and of vector control.

Large-scale campaigns for vector control are often unworkable for both financial and practical reasons, as well as being potentially damaging to the environment. For these reasons, attention has shifted to methods that can be applied by individuals and communities. This manual provides practical information on methods that are suitable for self-protection by families and communities in both rural and urban areas and that require only limited involvement by health services. In general these methods are relatively simple and cheap, do not require much training and, if properly applied, are safe for the user and the environment.

The manual provides practical information on all major disease vectors and pests: mosquitos and other biting Diptera, tsetse flies, triatomine bugs, fleas, lice, tick, mites, cockroaches, houseflies, water fleas and freshwater snails. For each group of vectors, information is provided on biology, public health importance and control measures. Chapters on house-spraying with residual insecticides and the safe use of pesticides are also included.

This manual is principally intended for health workers and auxiliary staff working with people at district and community level, as well as for health planners, aid organizations and those working in refugee camps.

ISBN 92 4 154494 5



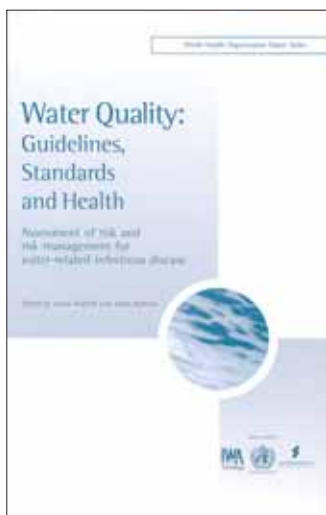
Water and health in Europe

A joint report from the European Environment Agency and the WHO Regional Office for Europe

Shortage of water may be the most urgent health problem currently facing some European countries. Climate change is predicted to influence water availability, especially in coastal areas. The extent of provision of piped drinking-water supplies to households varies across Europe and between urban and rural populations. The utilization of water for irrigation and for industry exerts pressure on water resources. Changes in population distribution and density are key factors influencing the quantity of water resources. Outbreaks of waterborne diseases continue to occur across Europe, and minor supply problems are encountered in all countries. Inadequate sewerage systems are a significant threat to public health. Numerous chemicals are found throughout the aquatic environment. Eutrophication is a major threat to European surface waters. Considerable evidence has accrued linking the quality of bathing water with minor illnesses. Additional efforts are required to sustain the European Region's water resources and to provide safe water. Partnerships and cooperation are needed between the environment and health sectors at all levels of government to disseminate technology, to improve management and to provide financial and institutional support to ensure access to safe water and sanitation for all.

These bald statements of fact sum up the scope of this comprehensive book, which highlights the state of Europe's water resources and their implications for health at the turn of the millennium.

ISBN 92 890 1360 5



Water quality: guidelines, standards and health

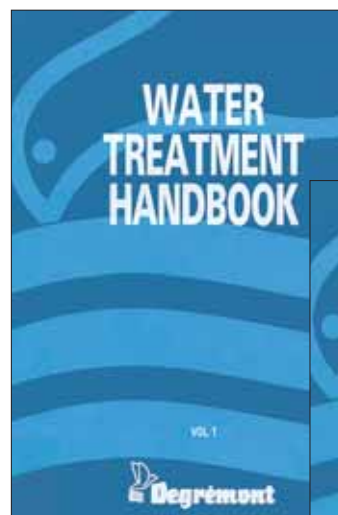
Assessment of risk and risk management for water-related infectious disease

Edited by Lorna Fewtrell (Centre for Research into Environment and Health, Aberystwyth, Wales) and Jamie Bartram (World Health Organisation, Geneva, Switzerland)

Water quality can have a major impact on health, both through outbreaks of waterborne disease and by contributing to the background rate of disease. Accordingly, countries develop water quality standards to protect public health. Recognising this, the World Health Organisation (WHO) has developed a series of normative “guidelines” that present an authoritative assessment of the health risks associated with exposure to health hazards through water and of the effectiveness of approaches to their control. The three principal guidelines are intended to assist countries in establishing effective national or regional strategies and standards.

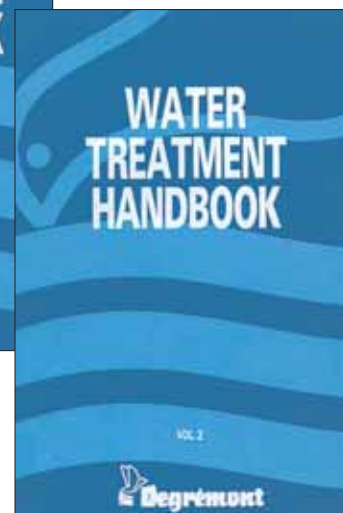
ISBN 1 900222 28 0 (IWA Publishing)

ISBN 92 4 154533 X (WHO)



Water treatment handbook Vol. 1 and Vol. 2

Lavoisier Publishing



The Handbook provides a comprehensive guide to the full range of expertise and knowledge acquired by generation of men and women in conserving the source of life itself. This new edition of the “Degremont Bible” is a testament to the company’s international tradition and longstanding reputation as a leading specialist. It is also proof that its personnel are able to implement the necessary technology to meet the challenges of the 21st Century.

ISBN 2 9503984 1 3



DVD – ECHO water and sanitation review 2005

This Water and Sanitation review has been undertaken in accordance with article 4 of the EC Humanitarian Regulation 1257/96 which allows for the financing of the technical assistance necessary for the implementation of humanitarian projects, including exchange of technical know-how and experience.

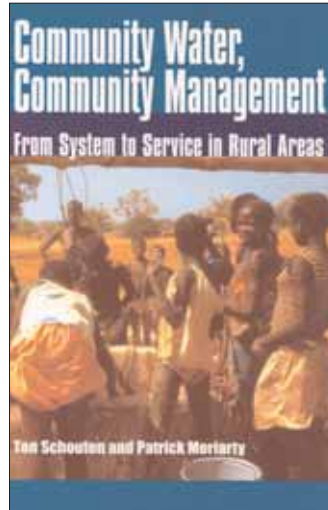


Water, Sanitation and Health Electronic Library

Dr Jamie Bartram - Water, Sanitation and Health Coordinator

This third edition of WHO's water sanitation and health electronic library compiles information available from the Organization on the theme. It includes many of the current publications and documents in HTML format and some other resource materials such as posters in PDF format. The purpose of this compilation is to make information more readily available. It should be useful to scientists, policy makers practitioners, students and others, whether they are from government, operational agencies, consultancies, academia, NGOs or other institutions. Whilst originally targeted to improve information access in developing countries it is of world-wide relevance.

The design of the CD-ROM makes finding information easy and quick and incorporates file formats and browsers which can be run on virtually any desktop or laptop computer. The WHO Water Sanitation and Health Electronic Library is updated every 12 to 18 months with the next edition scheduled for December 2005



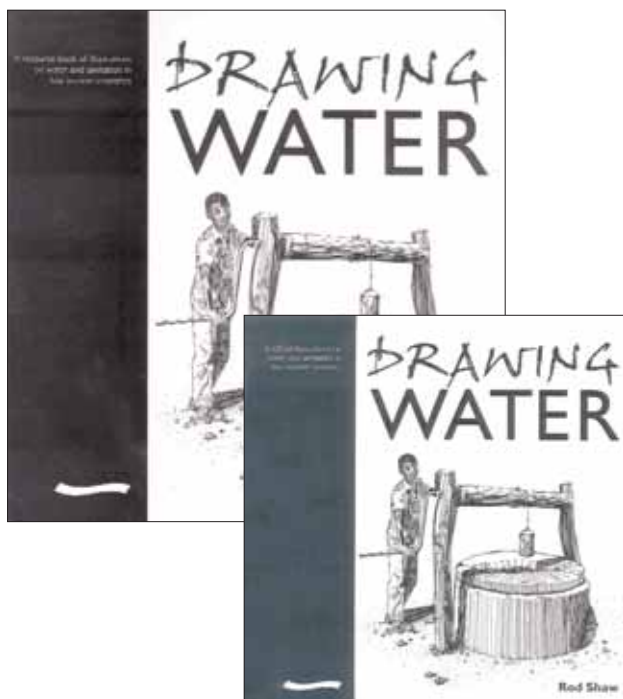
Community water, community management from system to service in rural areas

This book is based on the experience gained over twenty years of working to strengthen the capacities of rural communities to manage their own water supply systems. The day-to-day experiences of 22 communities in six different countries with differing geographical, socio-economic and cultural settings are at the heart of this book. Supplemented with research findings, it shows the power and creativity with which community people work to keep their water supply systems operational, and it also shows their struggle and difficulties. The authors bring to life the little things that can go wrong, the nitty-gritty details that are so crucial in making community management work, with clear sympathy for the people in the communities and the project staff working with them.

Countries featured: Kenya, Colombia, Guatemala, Cameroon, Pakistan, Nepal.

ISBN 1-85339-564-1

<http://styluspub.com/books/BookDetail.aspx?productID=66804>

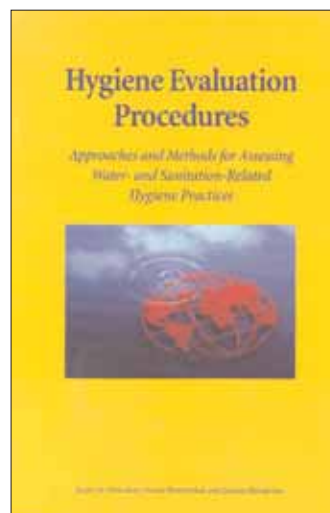


Drawing water

This book of black and white line illustration contains over 200 images concerning water supplies and sanitation in low-income countries. Covering subjects from handpumps, standposts and community wells to pit latrines and solid waste disposal, it will prove an invaluable resource for teachers, project managers, fieldworkers, and health professionals active in communication, education and other development work. The book provides ready-made drawings from which locally-adapted illustrations can also be made by artists and non-artists alike. A compact disk of high-resolution image in electronic form is included.

ISBN 1 84380 085 3

<http://books.google.ch/books?ie=UTF8&chl=fr&vid=ISBN1843800853&id=TBnpddABr4MC&pg=PR9&lpg=PR9&dq=Drawing+water&prev=http://books.google.ch/books%3Fq%3DDrawing%2Bwater%26hl%3Dfr&sig=syt0JJ3hvJNsZGK5th5DPUY2xvY>

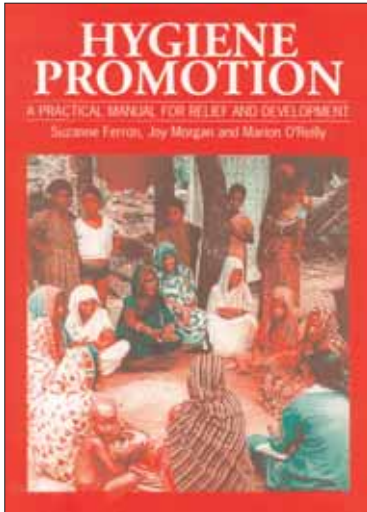


Hygiene evaluation procedures – Approaches and methods for assessing water and sanitation related hygiene practices

This handbook consists of practical guidelines for evaluating water- and sanitation-related hygiene practices. Hygiene practices are routine actions, commonly associated with cleanliness. Evaluation may refer to a systematic assessment carried out during the early stages of project planning, halfway through project implementation, or at the end of project activities. An evaluation of hygiene practices can be done for the purposes of project planning, monitoring, or final assessment of the project's impact.

ISBN No. 0-9635522-8-7

<http://www.unu.edu/unupress/food2/UIN11E/uin11e00.htm>

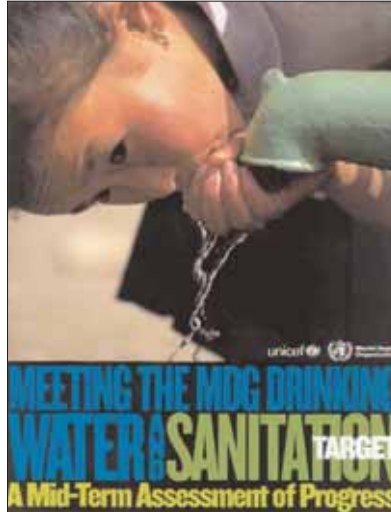


Hygiene promotion – A practical manual for relief and development

This practical manual fills a gap in the literature by providing guidance on hygiene promotion in emergency settings. Written particularly for fieldworkers aiming to reduce the incidence of water and sanitation related diseases in relief and rehabilitation programmes. It will also be useful for other development workers, particularly those working in the fields of community development, health and engineering.

ISBN 1-85339-505-6

<http://www.amazon.fr/exec/obidos/ASIN/1853395056/403-0406140-3706006>

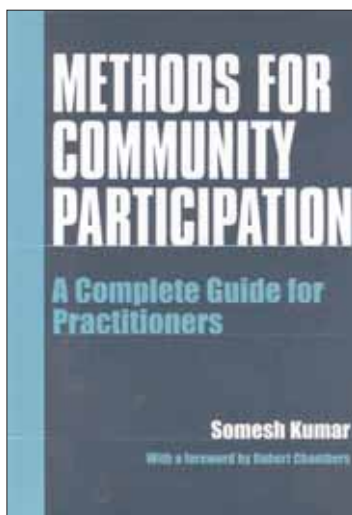


Meeting the MDG drinking water and sanitation target – A mid-term assessment of progress

This report produced by the WHO/UNICEF Joint Monitoring Programme on water supply and sanitation (JMP), provides the latest estimates and trends on where we stand today. The JMP's estimates are critical for calculating rates of progress towards national goals and for highlighting priorities, especially those that target the underserved.

ISBN 92-415-6278-1

http://www.who.int/water_sanitation_health/monitoring/jmp2004/en/



Methods for community participation: a complete guide for practitioners

Somesh Kumar with a foreword by Robert Chambers

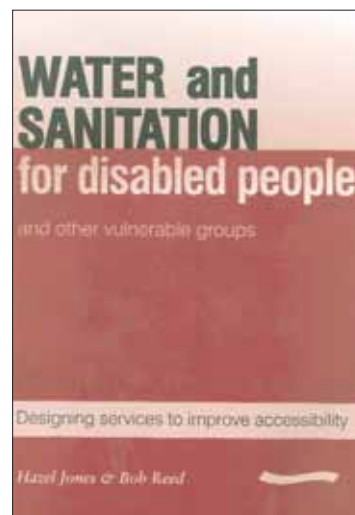
This immensely practical and comprehensive manual covers the concepts, practice and methodology of participatory development, focusing primarily on 'how' to achieve participation. It is rich with insights from the field, particularly from India, China and Nigeria.

The book contains: inclusive methodologies for reaching people; practical ways of making people's participation a reality; tips on best practices as well as on attitudes and behaviour, limitations and precautions; and features a ready reckoner of 24 methods to suit different development activities and contexts. It is designed to suit the needs of those working in diverse development sectors, and provides space for innovation while encouraging creativity and flexibility.

This easy to use manual constitutes a unique resource for PRA methods. As such, it will be of immense importance to development professionals, consultants and trainers as well as students and academics in the fields of development studies, social development, sociology and social research methods.

ISBN: 1853395544

http://www.lastfirst.net/product_info.php?products_id=48751



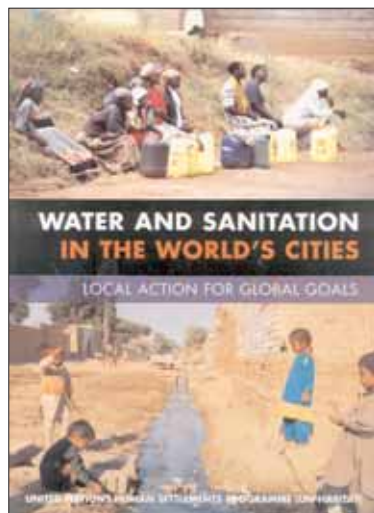
Water and sanitation for disabled people and other vulnerable groups

Based on three years of international research and collaboration with water and sanitation and disability sector organisations, this book fills a significant gap in knowledge, and should be of interest to the following audiences:

- Water and sanitation sector planners
- Water and sanitation service providers
- Organisations providing disability services
- Disabled people's organisations

ISBN: 1 84380 079 9

<http://wedc.lboro.ac.uk/publications/details.php?book=1%2084380%20079%209>



Water and sanitation in the world's cities – Local action for global goals.

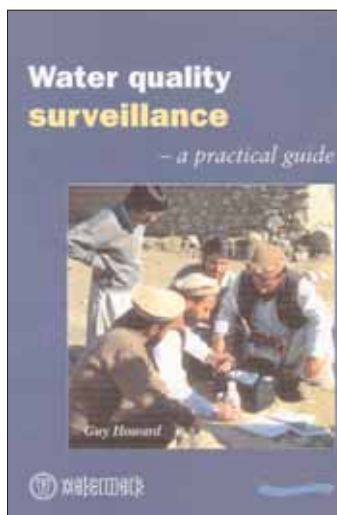
United Nations Human Settlements programme (Un-habitat)

This report is truly comprehensive. It looks at existing levels of provision in cities and smaller towns in each of the world's regions, providing concrete examples that highlight both the similarities and the local specificities of inadequate provision'

Contents: Provision of Water and Sanitation in Cities • The Impacts of Deficient Provision • Explaining Deficiencies in Urban Water and Sanitation Provision • Increasing Water Stress and Its Impact • Changing Perspectives and Roles: Privatization and Beyond • Improving Provision Through Integrated Water Resource Management • Governance for Good Provision: Getting the Best from Public, Private and Community Organizations • Bibliography, Index

ISBN 1-84407-004-2

www.earthscan.co.uk
www.unhabitat.org



Water quality surveillance – A practical guide

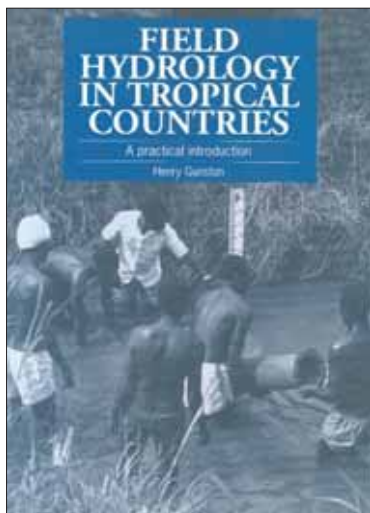
Guy Howard

This guide is designed to help staff who undertake surveillance and monitoring of water supplies in developing countries. It provides simple information on how data may be collected and explains the use of equipment and inspection techniques. It also provides example forms that can be easily photocopied, guidance on how monitoring data can be used to improve water supplies and water handling, and how reporting of information can be used to initiate dialogue with communities.

The guide was developed with support from the Department for International Development (DFID) (Project no: R6874), and the World Health Organization.

ISBN: 1 84380 003 9

www.wedc.lboro.ac.uk/publications



Field hydrology in tropical countries – A practical introduction

Henry Gunston

Making hydrological measurements in the field is an essential part of water resources planning and management. This book is an introduction to the practical skills and knowledge required to take measurements and to manage data collection programs. The author draws on 30 years of experience of working in tropical countries, and is based at the Institute of Hydrology at Wallingford, UK.

Henry Gunston is the co-ordinator of the water resources research programme at the Institute of Hydrology, Wallingford, UK, which is funded by DFID (the British Government aid programme)

ISBN: 1 85339 427 0

<http://styluspub.com/books/Books.aspx?type=catsect&ID=81>



The worth of water – Technical briefs on health, water and sanitation

Edited by Intermediate Technology

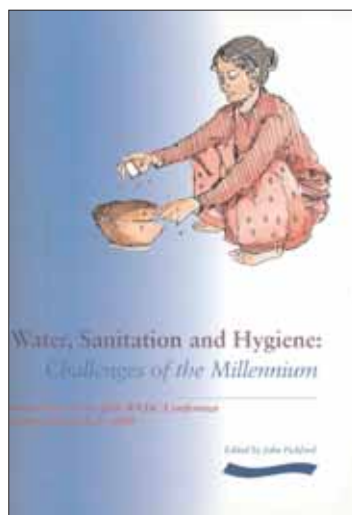
Introduction by John Pickford

The worth of water brings together a series of short, highly illustrated introductions to many of the main technologies and processes in the field of village and community level water and sanitation, ranging from household water storage to public standposts.

Each short brief concludes with an indication of where to go for more information, and Professor John Pickford of Loughborough University sets the scene for programme workers and project workers, who will find this “ideas tank” invaluable.

ISBN: 1 85339 069 0

<http://styluspub.com>



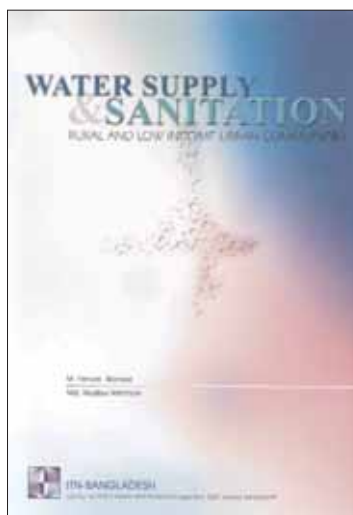
Water, sanitation and hygiene: challenges of the Millennium: proceedings of the 26th WEDC Conference, Dhaka, Bangladesh, 2000

John Pickford (ed.)

This book comprises the edited Proceedings of the 26th WEDC Conference held in Dhaka, Bangladesh in November 2000. It presents over a hundred papers relating to subjects including management, community management, health, water resources, water quality, wastewater treatment, solid waste and sanitation as well as discussion group reports and keynote addresses.

ISBN: 0 906055 89 X

<http://wedc.lboro.ac.uk>



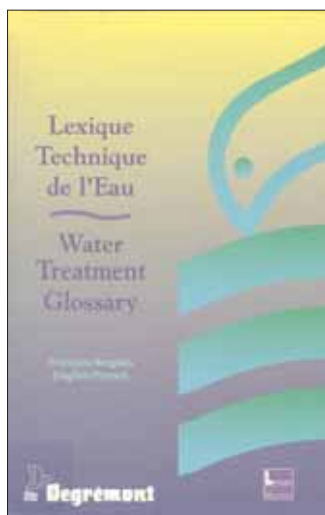
Water supply and sanitation for rural and low income urban communities

M. Feroze Ahmed
Md. Mujibur Rahman

This textbook has been developed with proper balance of 'software' ie socio-cultural and economic aspects and 'hardware' ie technical aspects, and with special attention to gender issue, including experiences in Bangladesh. It deals with water supply and sanitation appropriate for rural and low-income urban communities in Bangladesh and consists of three parts. The first part deals with the key elements needed for sustainable water supply and sanitation and the related software aspects like institutional and financial aspects, the user community, gender awareness, health, hygiene etc. The second part deals with technical aspects of environmental sanitation like waste management, wastewater collection, transportation, treatment, stormwater and sullage drainage etc. The third part of the content deals with water supply aspects contained with sources of water, water quantity and quality, treatment, water transmission and distribution and low cost water supply technologies. The book has been developed for students studying water supply and sanitation and their teachers at technical institutions in Bangladesh. It is also meant for professionals already working in the sector, who can use the textbook for reference

ISBN: 984-31-0936-8

www.buet.ac.bd/itn/publications.php



Water Treatment Glossary (French and English)

Available from publishers: Lavoisier Publishing, Intercept Limited, Lavoisier Publishing Inc.

This glossary is based on the terms used in the Ninth Edition of the Degrémont Water Treatment Handbook, and includes many other terms and expressions that are commonly encountered in the water treatment sector. It was compiled and checked by Degrémont's Translation Department and incorporates comments and suggestions by specialists in every aspect of the company's activities.



Source Bulletin

Water and sanitation news review

Source Bulletin is published bimonthly by IRC International Water and Sanitation Centre in cooperation with the Water Supply and Sanitation Collaborative Council.

You can subscribe to Source Weekly and the bi-monthly Special Features Edition via the Source web page at: <http://www.wssc.org/source/>



Waterlines

International journal of appropriate technologies for water supply and sanitation

Waterlines is a Quarterly journal – The issue of Waterlines aims to explore the implications of the livelihoods approach for the water and sanitation sector. Case study material highlights how water is used for the livelihoods of many people and how this often generates conflict between water.

Available online at: www.catchword.com/titles/02628104.htm

The Fundamental Principles of the International Red Cross and Red Crescent Movement

Humanity

The International Red Cross and Red Crescent Movement, born of a desire to bring assistance without discrimination to the wounded on the battlefield, endeavours, in its international and national capacity, to prevent and alleviate human suffering wherever it may be found. Its purpose is to protect life and health and to ensure respect for the human being. It promotes mutual understanding, friendship, cooperation and lasting peace amongst all peoples.

Impartiality

It makes no discrimination as to nationality, race, religious beliefs, class or political opinions. It endeavours to relieve the suffering of individuals, being guided solely by their needs, and to give priority to the most urgent cases of distress.

Neutrality

In order to enjoy the confidence of all, the Movement may not take sides in hostilities or engage in controversies of a political, racial, religious or ideological nature.

Independence

The Movement is independent. The National Societies, while auxiliaries in the humanitarian services of their governments and subject to the laws of their respective countries, must always maintain their autonomy so that they may be able at all times to act in accordance with the principles of the Movement.

Voluntary Service

It is a voluntary relief movement not prompted in any manner by desire for gain.

Unity

There can be only one Red Cross or Red Crescent Society in any one country. It must be open to all. It must carry on its humanitarian work throughout its territory.

Universality

The International Red Cross and Red Crescent Movement, in which all societies have equal status and share equal responsibilities and duties in helping each other, is worldwide.



The *International Federation of Red Cross and Red Crescent Societies* promotes the humanitarian activities of National Societies among vulnerable people.

By coordinating international disaster relief and encouraging development support it seeks to prevent and alleviate human suffering.

The International Federation, the National Societies and the International Committee of the Red Cross together constitute the International Red Cross and Red Crescent Movement.