INFORMATION

CATALOGUE WATER SANITATION AND HEALTH 2004

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Introduction
World Health Organization – Marketing and Dissemination
Information Products on Water, Sanitation and Health

This information products catalogue on water, sanitation and health provides bibliographic and descriptive information on over 150 recent WHO publications and CD-ROM relevant to water supply and sanitation, health in water resources development and management, the quality control of water, its risk assessment, the use of wastewater, the safe disposal of health care waste and the quality and control of recreational waters. It also includes books dealing with the promotion of healthy environments, and on vector control, the control of water-associated diseases and emerging issues in water and health.

Other information products provide current scientific information in the form of fact sheets, posters, teaching and training documents. Publications in preparation are listed in each section and relevant URL addresses are given for information available in electronic form.

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Developing countries benefit from at least a 30% discount on the regular price indicated in this catalogue for the books published by WHO.

Language editions
The following abbreviations are used in bibliographic entries to indicate the availability of language editions: Ar = Arabic; C = Chinese; E = English; F = French; G = German; R = Russian; S = Spanish; E/F = Bilingual edition English/French. An asterisk (*) indicates a language edition in preparation.

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This third edition of WHO’s water sanitation and health electronic library compiles information available from the World Health Organization on the theme. It includes many of the current publications and documents in HTML and/or PDF format, and also other resource materials such as posters.

The CD-ROM includes different information material such as books and reports, training documents and teaching material, water-related disease fact sheets, slides collections, and much more. The purpose of this compilation is to make information more readily accessible especially in countries with limited internet access. It should be useful to scientists, policy makers, practitioners, students and others—whether they belong to government, operational agencies, consultancies, academia, NGOs or other institutions.

The design of the CD-ROM facilitates information recovery, and incorporates file formats and browsers which can be run virtually on any desktop or laptop computer. The information is primarily in English with a few documents also available in French. The WHO Water, Sanitation and Health Electronic Library CD-ROM is updated yearly. Each new edition includes the latest information available as well as some texts which could not be incorporated in previous editions.

How it works
Files can be accessed by any browser. The documents may be searched by titles or authors, themes, topics or keywords. Multi-criteria searches make them easily accessible.

Intended Audience
Policy and decision makers, Governments, Water managers, Water engineers, Water, sanitation and health institutions, Consultants, Professors, NGO’s, Libraries and other interested persons.

2004, CD-ROM
[E, including a few documents in French and Spanish]
ISBN 92 4 154655 7
CHF 390.–/US $351.00
In developing countries: CHF 90.–
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Save up to 70% on the price of individual publications by subscribing to the CD-ROM.

**CD-ROM content**

This CD-Rom is a compendium of WHO information on Water, Sanitation and Health. It contains more than 20,000 pages of information, comprising over 150 books, documents and information material. The revised edition of the WSH-CD-ROM contains the new Guidelines for Drinking-water Quality, third edition.

**Selected new books included in the CD-ROM:**
- Guidelines for Drinking-water Quality, 3rd edition
- Meeting the MDG Drinking-water and Sanitation Target
- Guidelines for Safe Recreational Water Environments – volume 1
- Heterotrophic Plate Counts and Drinking-water Safety
- Impact on Microbial Water Quality and Occurrence of Pathogens in Water Sources
- Hazard Characterization for Pathogens in Food and Water
- Water Treatment and Pathogen Control
- Assessing Microbial Safety of Drinking-Water
- Pathogenic Mycobacteria in Water
- Safe, Piped Water
- Waterborne Zoonoses
- The Right to Water
- Inheriting the World - the Atlas on Children's Health and the Environment
- Guidelines to the Development of on-site Sanitation
- Safe Management of Wastes from Health-care Activities
- ... and much more

**Selected reports, brochures and documents covering the following topics:**
Arsenic in drinking-water, water resources management series, safe recreational water environments, healthcare waste, operation and maintenance, environmental health in water resources development, sanitation and hygiene education, safe wastewater use, water and health: information for the general public and thematic articles and the following new reports:

- Linking Technology Choice with Operation and Maintenance
- Report of a Health Impact Assessment Workshop
- Evaluation of Costs and Benefits of Water and Sanitation Improvements at the Global Level
- Domestic Water Quantity and Service Level
- Emerging Issues in Water and Infectious Diseases
- The Sanitation Challenge: Turning Commitments into Reality
- Looking Back: Looking Ahead. Why Action is Needed to Improve Environmental Sanitation
- Managing Water in the Home
- Facts and Figures. Water, Sanitation and Hygiene Links to Health
- ... plus more

**Water and sanitation related disease fact sheets on:**
Anaemia, arsenicism, ascariasis, campylobacteriosis cholera, cyanobacterial toxins, dengue and dengue haemorrhagic fever, guinea-worm diseases, leptospiro-sis, hepatitis, Japanese encephalitis, lead poisoning, malaria, malnutrition, menthaemoglobinemia, onchocerciasis, ringworm, scabies, schistosomiasis, trachoma, spinal injury, typhoid and paratyphoid enteric fevers and more...

**Slides collection, teaching material and posters:**
- Guidelines for drinking-water quality training pack
- Teacher’s guide: management of wastes from health care activities: slides collection
- Teacher’s guide: management of wastes from health care activities: overheads collection
- Water, sanitation and health posters
- Sanitation connection posters
- Inheriting the World posters
Guidelines for Drinking-water Quality
Third Edition
Volume 1. Recommendations

This new edition of WHO’s Guidelines for Drinking-water Quality provides a state-of-the-art perspective on issues of water quality and health and on effective approaches to water safety management.

The Guidelines are used by countries world-wide as a scientific basis for standard-setting and regulation and are used extensively by policymakers, professionals and local decision-makers. They supersede five editions of guidelines and of previous International Standards.

This fully-revised third edition includes expanded coverage on systematic drinking-water safety assessment and management. It describes a “Water Safety Framework” encompassing complementary functions of national regulators, water suppliers and independent surveillance agencies. The “Water Safety Plan” provides a comprehensive approach to assist suppliers in water safety management.

Guideline Values for individual chemicals have been reviewed, updated and newly-added in response to available scientific information. Summary statements are included for specific pathogens and individual chemical hazards of actual or potential concern. This third edition also includes more information on application of the Guidelines in specific circumstances (e.g. small community supplies, in large buildings, in emergencies and disasters); and to specific applications (e.g. bottled water, water in food production...).

Volume 1 of the Guidelines also provides a “roadmap” to more than 130 documents which substantiate or explain the content of the Guidelines; and to a large series of guidance documents on “good practice” in achieving drinking-water safety.

2004, 366 pages [E]
ISBN 92 4 154638 7
CHF 70.–/US $63.00
In developing countries: CHF 35.–
Order no. 11500567
Guidelines for Drinking-water Quality
Second edition
Addendum: Microbiological Agents in Drinking-water

This Addendum to the second edition of Guidelines for drinking-water quality contains reviews of a number of pathogens that occur widely in water – Aeromonas spp., Legionella spp., Vibrio cholerae, enteric hepatitis viruses, and protozoan parasites (Cryptosporidium, Giardia, and Cyclospora spp.). These review documents supersede, and are more comprehensive than, those previously published in Volumes 1 and 2 of the Guidelines. The microbiological reviews summarize current knowledge of transmission, attenuation, and removal of the individual pathogens, and of the effectiveness of measures for interrupting transmission.

Assessing Microbial Safety of Drinking Water
Improving Approaches and Methods

Inadequate drinking water and sanitation are amongst the world’s major causes of preventable morbidity and mortality. The book provides a state-of-the-art review on approaches and methods used in assessing the microbial safety of drinking water. It supports the rapidly emerging trends towards preventive management and a broader, system-wide outlook. It supports a framework for water supply which extends from resource to consumer and is based on rigorous risk assessment and risk management. Furthermore it offers guidance on the selection and use of available indicators alongside operational monitoring to meet specific information needs. It looks at potential applications of “new” technologies and emerging methods.

Hazard Characterization for Pathogens in Food and Water
Guidelines

This publication, one of the Microbiological Risk Assessment Series, provides guidelines for the characterization of hazards in food and water using a structured, six-step approach; description of the process of hazard characterization; process initiation; data collection and evaluation; descriptive characterization, dose-response modelling; and review of results.
Water Quality: Guidelines, Standards and Health
Assessment of risk and risk management for water-related infectious disease

Based on reviews developed and refined by an international group of experts concerned with drinking water, irrigation and wastewater use and recreational bathing water, this book addresses the principal issues of concern linking water and health to the establishment and implementation of effective, affordable and efficient guidelines and standards. It will prove invaluable to all those concerned with issues relating to microbial water quality and health, including environmental and public health scientists, water scientists, policy makers and regulators.

by M.W. LeChevallier and A. Kwok-Keung
2004, 200 pages [E]
ISBN 92 4 156253 X
CHF 126.–/US $113.40
In developing countries: CHF 63.–
Order no. 11500563

Safe, Piped Water: Managing Microbial Water Quality in Piped Distribution Systems
A Review of Knowledge and Practices

The development of pressurized pipe networks for supplying drinking-water to individual dwellings, buildings and communal taps is an important component in the continuing development and health of many communities. This publication considers the introduction of microbial contaminants and growth of microorganisms in distribution networks and the practices that contribute to ensuring drinking-water safety in piped distribution systems.

by R. Ainsworth
2004, 161 pages [E]
ISBN 92 4 156251 X
CHF 70.–/US $63.00
In developing countries: CHF 35.–
Order no. 11500557

Water Treatment and Pathogen Control
Process Efficiency in Achieving Safe Drinking-water

This book provides a critical review of literature on removal and inactivation of pathogenic microbes in water. It aims to guide water quality specialists and design engineers in selecting treatment processes to ensure the production of high quality drinking-water. Water treatment and Pathogen Control is a supporting volume to WHO’s Guidelines for Drinking-water Quality.

by L. Fewtrell and J. Bartram
2001, 440 pages [E]
ISBN 92 4 154533 X
CHF 126.–/US $113.40
In developing countries: CHF 88.20
Order no. 11500489

Some Drinking-water Disinfectants and Contaminants, including Arsenic
A well-researched report from a working group of 23 experts from 13 countries convened to evaluate the evidence of carcinogenicity of drinking-water disinfectants and of arsenic (mostly naturally occurring) as a contaminant of drinking-water, and of the water-disinfectant chloramine. The working group also evaluated or re-evaluated four chlorination by-products found in drinking-water, namely chloral hydrate, di- and trichloroacetic acids, and 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (also known as MX).

by M.W. LeChevallier and A. Kwok-Keung
2004, 200 pages [E]
ISBN 92 4 156253 2
CHF 50.–/US $45.00
In developing countries: CHF 25.–
Order no. 11500563

Managing Water in the Home: Accelerated Health Gains from Improved Water Supply
This report describes and critically reviews the various methods and systems for household water collection, treatment and storage.
Prepared by Professor M. Sobsey
2002, Ref no. WHO/SDE/WSH/02.07
Electronic access only: http://www.who.int/phe

International Agency for Research on Cancer
IARC Monographs, Volume 84
2004, 400 pages [E]
ISBN 92 832 1264 3
CHF 45.–/US $40.00
In developing countries: CHF 31.50
Order no. 17200084

In preparation
Desalination for Safe Drinking-water Supply
This guide, presently in preparation, presents the state-of-the-art in understanding and controlling health risks associated with desalination and syntheses and describes ‘good practice’ in ensuring the health benefits of desalinated water are secured.
WHO, expected 2005
Arsenic and Arsenic Compounds
Second edition

The report evaluates the large number of investigations of arsenic toxicity. In the ecological section, evidence is presented that arsenic causes effects including inhibition of growth, photosynthesis and reproduction, and behavioural effects. The report concludes with a number of recommendations for future research.

Fluorides

This book evaluates the risk to human health and the environment posed by exposures to fluorides. It is widely known that fluoride has both positive and negative effects on human health, and there is a narrow range between intakes that are associated with these effects. Cases of skeletal fluorosis associated with the consumption of drinking water containing elevated levels of fluoride are reported.

Vinyl Chloride

This monograph deals with vinyl chloride (VC) monomer. Water in sources of VC are investigated. Methods employed (with differing success) for removal of VC from contaminated waters are reviewed. The toxicity of VC is evaluated, including its carcinogenic properties.

Inorganic Lead

Evaluates the risks to human health posed by exposure to lead and inorganic lead compounds. Food, beverages, and water constitute the major source of exposure for the adult general population. Infants and young children are exposed to an additional burden of lead present in soil and household dust. Additional evidence shows increased lead absorption when diets are deficient in calcium, phosphate, selenium, or zinc.

"... a very good reference text..."
- Pathology

Disinfectants and Disinfectant By-products

This book evaluates the risks to human health posed by disinfectants and disinfectant by-products found in treated drinking-water. It evaluates over 800 recent studies in an effort to clarify understanding of the chemistry and toxicology of disinfectants and disinfectant by-products, and provide a balanced assessment of the associated risks to human health.

"... not only the most extensive, but also one of the best toxicological series in existence... These books deserve nothing but praise..."
— International Journal of Environmental Studies
Evaluation of the H2S Method for Detection of Fecal Contamination of Drinking-water
This report addresses the fundamental microbiological considerations of the hydrogen sulfide test, including its chemical and biochemical basis, what organisms it detects and how it detects and quantifies them and the reported experiences with its practical application to assessing water quality.

WHO, 2004
Electronic access: http://www.who.int/water_sanitation_health

Chemical Safety of Drinking-water: Assessing Priorities for Risk Management
This book provides methods and indicators to predict critical chemicals to monitor and manage among the hundreds of chemicals in drinking-water for which there may be limited resources and information.

WHO, expected 2005

Legionella and the Prevention of Legionellosis
Legionnaires’ disease is a potentially life-threatening form of pneumonia caused by Legionella spp. This document encompasses a review of risk assessment and risk management aspects of Legionella in a range of settings where exposure is possible.

WHO, expected 2005

Arsenic in Drinking Water
This state-of-the-art review was prepared over several years as a cooperative effort amongst a number of agencies including WHO, UNICEF, IAEA, UN-DESA. Its separate chapters deal in depth with different aspects and are often of interest to different professional and interest groups.

WHO, expected 2005

Fluoride in Drinking-water
This report provides up-to-date information on fluoride in drinking water ranging from source, exposure, human health effect, measurement to mitigation strategies.

WHO, expected 2005

Protecting Ground Waters for Health - Managing the Quality of Drinking-water Sources
This supporting volume to WHO’s Guidelines for Drinking-water Quality provides a state-of-the-art review of experience with access and managing health risks associated with groundwater as a source of drinking-water.

WHO, expected 2005

Protecting Surface Waters for Health - Managing the Quality of Drinking-water Sources
This supporting volume to the WHO’s Guidelines for Drinking-water Quality describes the assessment and management of health risks associated with rivers and lakes and other surface waters as sources of drinking-water.

WHO, expected 2005
Analysis of Wastewater for Use in Agriculture
A Laboratory Manual of Parasitological and Bacteriological Techniques

An illustrated guide to the laboratory analysis of treated wastewater intended for use in agriculture. Analytical procedures recommended in the manual are simple and effective, require minimum equipment, and can be carried out by persons with little or no previous parasitological or microbiological experience. All procedures are fully explained and clearly illustrated in over 40 photographs, including 20 colour plates. Relevant laboratory skills are also explained with the aim of encouraging standardized performance of procedures.

by R.M. Ayres and D.D. Mara
1996, iv + 31 pages [E, F, S]
ISBN 92 4 154484 8
CHF 12.–/US $10.80
In developing countries: CHF 8.40
Order no. 11500432

Guidelines for the Safe Use of Wastewater and Excreta in Agriculture and Aquaculture
Measures for Public Health Protection

Provides policy makers with the health based evidence for developing standards/regulations for the safe use of wastewater and excreta in agriculture and aquaculture. 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. In keeping with the need to conserve resources, the book also presents compelling arguments for the environmental advantages of reuse schemes, including increased crop yields, reduced requirements for artificial fertilizers, avoidance of surface water pollution, conservation of soil and freshwater resources, and desertification control.

by D. Mara and S. Cairncross
ISBN 92 4 154248 9
CHF 35.–/US $31.50
In developing countries: CHF 24.50
Order no. 11500324
Second edition in preparation – see below

Guidelines for the Safe Use of Wastewater and Excreta in Agriculture, second edition
Volume 1

This document will provide an update to the influential 1989 WHO Guidelines for the safe use of wastewater and excreta in agriculture and aquaculture. The specific focus of this document is controlling the health risks associated with the use of wastewater and excreta in agriculture.

WHO, expected 2005

Guidelines for Safe Use of Wastewater and Excreta in Aquaculture, Second Edition

This document provides an update to the influential 1989 WHO Guidelines for the safe use of wastewater and excreta in agriculture and aquaculture. The specific focus of this document is controlling the health risks associated with the use of wastewater and excreta in aquaculture.

WHO, expected 2005

Guidelines for the Safe Use of Wastewater and Excreta in Agriculture: Supporting Evidence
Second edition, Volume 2

This document provides the scientific background used to develop the Guidelines for the safe use of wastewater and excreta in agriculture through a series of key issues papers.

WHO, expected 2005

Health Aspects of Aquifer Recharge With Reclaimed Water

This document explores the health implications associated with the recharge of aquifers with reclaimed water.

WHO, expected 2005
Guidelines for Safe Recreational Water Environments
Volume 1 Coastal and Fresh Waters

This volume describes the present state of knowledge regarding the possible adverse impact of the recreational use of coastal and freshwater environments upon the health of users. It also outlines monitoring, control and prevention strategies relating to the hazards associated with these environments. Any possible adverse impacts must be weighed against the enormous benefits to health and well-being associated with the use of recreational water environments.

2003, 219 pages [E]
ISBN 92 4 154580 1
CHF 70.–/US $63.00
In developing countries: CHF 49.–
Order no. 11500525

Executive Summary
2003, 12 pages [E,F,S,A,R]
Electronic access: http://www.who.int/water_sanitation_health/bathing/srwe1/en/

Monitoring Bathing Waters
A practical Guide to the Design and Implementations of Assessments and Monitoring Programmes

This book, which has been prepared by an international group of experts, provides comprehensive guidance for the design, planning and implementation of assessments and monitoring programmes for water bodies used for recreation.

In Preparation

For information on availability of these documents, please refer to http://www.who.int/water_sanitation_health/

Guidelines for Safe Recreational Water Environments
Volume 2. Monitoring Bath Water

This second volume provides guidelines on the health hazards associated with swimming-pools, spas and similar recreational water environments.

WHO, expected 2005

Water Recreation and Disease
An Expert Review of the Plausibility of Associated Infections, their Acute Effects, Sequelae and Mortality

This book provides a comprehensive review and analysis of potential disease outcomes associated with recreational water activities. This book will be useful to all those concerned with recreational water quality, including environmental and public health professionals, local authorities, user groups, and tourists.

by K. Pond
WHO, expected 2005

by J. Bartram and G. Rees
SPON Press
1999, 337 pages [E]
ISBN 0-419-24380-1
£24.99
To order or obtain information contact SPON.
(See introduction page for address)
Zoonoses - diseases caused by microorganisms of animal origin that also infect humans - are of increasing concern for human health. They pose present and future challenges to ensuring the safety of drinking-water and ambient water. Up to 75% of 'emerging' pathogens may be of zoonotic origin. A significant number of emerging and re-emerging waterborne pathogens have been recognized over recent decades; examples include E. coli O157:H7, Campylobacter, and Cryptosporidium.

This book provides a critical and balanced assessment of current knowledge about waterborne zoonoses and identifies strategies and research needs for anticipating and controlling future emerging water-related disease. It brings together the opinions of world experts across a wide range of disciplines and provides an invaluable tool for all professionals concerned with assessing and managing waterborne disease in humans or animals.
Heterotrophic Plate Counts and Drinking-water Safety
The Significance of HPCs for Water Quality and Human Health

Heterotrophic Plate Counts and Drinking-water Safety provides valuable information on the utility and the limitations of HPC data in the management and operation of piped water systems as well as other means of providing drinking water to the public. It is of particular value to piped public water suppliers and bottled water suppliers, manufacturers and users of water treatment and transmission equipment and in-line treatment devices, water engineers, sanitary and clinical microbiologists, and national and local public health officials and regulators of drinking water quality.

Free of charge

For information on availability of these documents, please refer to:
www.who.int/water_sanitation_health

Emerging Issues in Water and Infectious Disease
Reports newly-recognized pathogens and new strains of established pathogens that are being discovered and which present important additional challenges to both the water and public health sectors. Between 1972 and 1999, 35 new agents of disease were discovered and many more have re-emerged after long periods of inactivity, or are expanding into areas where they have not previously been reported. Amongst this group are pathogens that may be transmitted by water.

2003, 22 pages [E]
ISBN 92 4 159062 3
Electronic access:
http://www.who.int/water_sanitation_health/emerging/emergingissues/en/

Pathogenic Mycobacteria in Water
A Guide to Public Health Consequences, Monitoring and Management

This book describes the current knowledge of the distribution of PEM in water and other parts of the environment. The routes of transmission that lead to human infection are discussed and there is a detailed analysis of the most significant disease symptoms that can follow infection. The classical and modern methods of analysis are described. The book concludes with a discussion of the issues surrounding the control of PEM in drinking-water and the assessment and management of risks.

In preparation

For information on availability of these documents, please refer to:
www.who.int/water_sanitation_health

Respiratory Transmission of Fecally Excreted Viruses
This report gives an overview of evidence for droplet, aerosol and surface (fomite) transmission of viruses including SARS and fecal, urinary and respiratory (FUR) viruses, their human health risks and their prevention and control.

by Professor M. Sobsey
WHO, expected 2005
Water Quality Monitoring
A practical guide to the design and implementation of freshwater quality studies and monitoring programmes

Water quality monitoring is a fundamental tool in the management of freshwater resources, and this book covers the entire monitoring process providing detailed guidance for implementing a monitoring network with step-by-step descriptions of field and laboratory methods.

by J. Bartram and R. Balance
1996, 383 pages [E]
ISBN 0-419-21730-4
£24.99

Water Quality Assessments (2nd edition)
A guide to the use of biota, sediments and water in environmental monitoring

This guidebook, now thoroughly updated and revised in its second edition, gives comprehensive advice on the designing and setting up of monitoring programmes for the purpose of providing valid data for water quality assessments in all types of freshwater bodies. It is clearly and concisely written in order to provide the essential information for all agencies and individuals responsible for the water quality.

by D. Chapman
1996, 626 pages [E]
ISBN 0-419-21600-6
£22.99

Water Pollution Control
A guide to the use of water quality management principles

This is a handbook for policy makers and environmental managers in water authorities and engineering companies engaged in water quality programmes, especially in developing countries. It is also suitable for use as a textbook or as training material for water quality management courses. It is a companion volume to Water Quality Assessment and Water Quality Monitoring.

by R. Helmer and I. Hespanhol
1997, 510 pages [E]
ISBN 0-419-22910-8
£32.50

Toxic Cyanobacteria in Water
A Guide to their Public Health Consequences, Monitoring and Management

This book describes the present state of knowledge regarding the impact of cyanobacteria on health through the use of water. It considers aspects of risk management and details the information needed for protecting drinking water sources and recreational water bodies from the health hazards caused by cyanobacteria and their toxins. It also outlines the state of knowledge regarding the principal considerations in the design of programmes and studies for monitoring water resources and supplies and describes the approaches and procedures used.

by I. Chorus and J. Bartram
1999, 416 pages [E]
ISBN 0-419-23930-8
£24.99
Vector Control
Methods for Use by Individuals and Communities

The first comprehensive, illustrated guide to vector control methods suitable for use by individuals and communities. Published at a time when large-scale control programmes organized by governments are declining, the manual aims to help non-professionals understand the role of vectors in specific diseases and then select and use control methods that are appropriate, effective, affordable, and safe. Hundreds of simple, inexpensive and often ingenious techniques, developed and used in a host of different settings, are presented and described in this abundantly illustrated guide.

Guidelines for the Incorporation of Health Safeguards into Irrigation Projects through Intersectoral Cooperation
Joint WHO/FAO/UNEP/UNCHS Panel of Experts on Environmental Management for Vector Control (PEEM)

A practical guide to the planning of irrigation schemes that are both cost-effective and beneficial to health. Noting the many factors that can doom an irrigation scheme to failure, the book takes planners, managers, and engineers through each stage in the project cycle, alerting readers to potential problems and describing the precautions needed to ensure increased agricultural production and better health status in a cost-effective way.

Guidelines for Forecasting the Vector-borne Disease Implications of Water Resources Development
Joint WHO/FAO/UNEP/UNCHS Panel of Experts on Environmental Management for Vector Control (PEEM)

A practical self-instruction manual for water resources and health professionals who need to make a rapid assessment of the health risks associated with a water development project in the tropics or sub-tropics at the early planning phase. The book uses worksheets, flowcharts, maps, tables, examples, and numerous classification schemes to give the processes of data collection and interpretation a structured framework.

Guidelines for Cost-Effectiveness Analysis of Vector Control
Joint WHO/FAO/UNEP/UNCHS Panel of Experts on Environmental Management for Vector Control (PEEM)

Addressed to specialists who lack formal training in economics and epidemiology, the guide explains the techniques and procedures to follow when assessing and then comparing different interventions in order to achieve a specified objective at the least cost and make the most out of limited budgets.
Health Opportunities in Development CD-ROM
A Course Manual on Developing Intersectoral Decision-making Skills in Support of Health Impact Assessment

Health impact assessment is an essential decision-making tool in the planning of water resources and other development projects. The course manual on this CD-ROM addresses the need to develop these skills in a problem-based learning approach. The CD-ROM includes electronic versions of all materials contained in the course manual as well as background textbooks and visual aids.

2003, CD ROM
by R. Bos, M.H. Birley, C. Engel and P. Furu
ISBN 92 4 154617 4
CHF 75. –/US$67.50
In developing countries: CHF 52.50
Order number 19900017

Free of charge
For information on availability of these documents, please refer to:
www.who.int/water-sanitation_health

Reducing and eliminating the use of persistent organic pesticides: guidance on alternative strategies for sustainable pest and vector management

by J. Mörner, R. Bos and M. Fredrix
UNEP/FAO/WHO, 2002, 88 pages [E only]
Electronic access only:


WHO, 2000, 42 pages, WHO/SDE/WSH/00.09 [E]
Electronic access:
http://www.who.int/water_sanitation_health/HIA/WSH009-9.htm

Slide Set on Environmental Management in Vector Control

This set of training aids provides an introduction to the role of water resource management schemes in spreading a number of important communicable diseases of man. It presents a number of adverse conditions as they frequently occur in water resource development projects, followed by examples of environmental engineering measures which can be applied for their correction. Aimed at engineers these training aids are also designed as educational material for the training of vector control specialists.

2003, Slide Set Series
by R. Bos, M.H. Birley, C. Engel and P. Furu
1989, iv + 46 pages + 60 colour slides and 25 overhead transparencies
CHF 110.–/US $94.00
In developing countries: CHF 77.–
Order no. 16600009

Vector Biology and Control Training and Information Materials, Slide Set Series
1997, iii + 83 pages + 180 colour slides
CHF 250.–/US $225.00
In developing countries: CHF 175.–
Order no. 16600013

Action Plan for the Reduction of Reliance on DDT in Disease Vector Control

WHO, 2001, 40 pages, WHO/SDE/WSH/01.5[E]
Electronic access:
http://www.who.int/water_sanitation_health/vector/ddt2.htm


WHO, 2002, 14 pages, WHO/SDE/WSH/02.06 [E]
Electronic access:
http://www.who.int/water_sanitation_health/resources/wsh0206/en/

Human Health and Dams:
The World Health Organization’s Submission to the World Commission on Dams (WCD)

WHO, 2001, 38 pages, WHO/SDE/WSH/00.01 [E]
Electronic access only:
http://www.who.int/water_sanitation_health/vector/dams.htm

Health as a Cross-cutting Issue in Dialogues on Water for Food and the Environment

WHO, 2004, 47 pages, Reference
WHO/SDE/WSH/04.02
Electronic access:
http://www.who.int/water_sanitation_health/resources/wsh0402/en/

Environmental Management for Malaria Control in the East Asia and Pacific

by S. Lindsay, M. Kirby, E. Baris and R. Bos
WHO and World Bank, 2004
Electronic access only:

Vector Biology and Control Training and Information Materials, Slide Set Series
1989, 46 pages + 90 colour slides and 25 overhead transparencies
CHF 110.–/US $94.00
In developing countries: CHF 77.–
Order no. 16600009

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In developing countries: CHF 77.–
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Slide Set on Agricultural Development and Vector-borne Diseases

A set of 180 high-quality colour slides illustrating the multiple - and complex - effects that agricultural development can have on vector-borne diseases. The slides are accompanied by over 80 pages of background information, tips for effective presentation, advice on teaching techniques, and lively commentaries for each slide. With this problem in mind, the volume provides striking visual evidence of the many specific agricultural practices that can create ideal habitats for vectors, and endanger the health of large populations.

2003, Slide Set Series
by R. Bos, M.H. Birley, C. Engel and P. Furu
1997, iii + 83 pages + 180 colour slides
CHF 250.–/US $225.00
In developing countries: CHF 175.–
Order no. 16600013
Meeting the MDG Drinking-water and Sanitation Target
A Mid-term Assessment of Progress

This report prepared by WHO and UNICEF provides water supply and sanitation coverage data for 1990 and 2002 at national, regional and global levels and an analysis of trends towards 2015. It is intended as a ‘reality check’ on how far we have come, and where we need to focus next, in order to fulfil our commitment towards the water supply and sanitation targets of the Millennium Development Goals.

Global Water Supply and Sanitation Assessment 2000 Report

Reports the findings, by country and by region, of a global assessment of the water supply and sanitation sector in 2000. Prepared by the WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation, the report uses a new methodology that gives both a more accurate estimate of access to water supply and sanitation and a better understanding of the many factors that influence changes over time. The report also compares current findings with data from 1990 and assesses the feasibility of reaching targets set for 2015.

Environmental Health in Emergencies and Disasters
A Practical Guide

This volume distills what is known about environmental health during an emergency or disaster. It draws on results from the international Decade for National Disaster Reduction, and on experience with sustainable development between the two Earth Summits, in Rio de Janeiro and Johannesburg. The volume is intended for practitioners, as well as policy makers and researchers, and thus covers both general and technical aspects of environmental health.

This book will be useful in planning for, responding to, and recovering from the movements of displaced persons and refugees in humanitarian crises, as well as the floods, storms, earthquakes and other extreme events that will confront health workers in the first decade of the 21st Century. Given trends over the 1990s, it is unlikely that humanity has seen the last of these challenges.

by B. Wisner and J. Adams
2003, 272 pages [E]
ISBN 92 4 154541 0
CHF 60.–/US $ 54.00
In developing countries: CHF 42.00
Order Number 11500487

Access information on WHO publications by visiting our e-commerce website:
http://bookorders.who.int
The PHAST Initiative: Participatory Hygiene and Sanitation Transformation
A New Approach to Working with Communities

Describes an exciting approach, based on an innovative set of participatory techniques, that has demonstrated its ability to promote hygienic behaviour, sanitation improvements, and community management of water and sanitation facilities. Known as the Participatory Hygiene and Sanitation Transformation, or PHAST, initiative, the approach was carefully developed and tested in both urban and rural areas of four African countries: Botswana, Kenya, Uganda, and Zimbabwe. Results of these tests indicate an unprecedented involvement of communities, the particular suitability of PHAST techniques to resource-poor settings, and remarkable success in terms of environmental and behavioural improvements.

by S. Wood, R. Sawyer and M. Simpson-Hébert
1998, ix + 126 pages [E, F]
WHO/EO/98.3
CHF 16.–/US $14.40
In developing countries: CHF 11.20
Order no. 19300131

PHAST Step-by-Step Guide: A Participatory Approach for the Control of Diarrhoeal Disease

A spiral-bound manual offering step-by-step instructions for helping communities improve hygiene behaviour, prevent cholera and other diarrhoeal diseases, and manage their own water and sanitation facilities. Addressed to facilitators working in the community, the manual uses the Participatory Hygiene and Sanitation Transformation, or PHAST, approach, an exciting new methodology which relies on locally-prepared visual “toolkits” to stimulate community enthusiasm and participation. Recommended materials and activities were extensively field tested in four African countries.
Sanitation Promotion

A collection of original articles, case studies, checklists, worksheets, and stimulating ideas aimed at raising the profile of sanitation and thus attracting the assistance and investments needed to make progress. Noting that tremendous efforts over two decades that have had little impact on sanitary conditions for much of the world, the book calls for a revolution in the way the sanitation sector defines its objectives and conducts its work. With this goal in mind, the book serves as a rich resource of ideas, solid lessons based on past experience, guidance on “best practices” in meeting a range of difficult needs, and some innovative new tools for both promoting sanitation and introducing ecologically-friendly technologies. Although all areas of sanitation are considered, the major emphasis is on the management of human wastes.

WSSCC Working Group on Promotion of Sanitation edited by M. Simpson-Hébert and S. Wood
1998, xv + 277 pages [E, F]
WHO/EOS/98.5
CHF 40.–/US $36.00
In developing countries: CHF 28.–
Order no. 19300147

A Guide to the Development of On-site Sanitation

Provides detailed practical and technical advice intended to guide the selection, design, construction, and maintenance of on-site facilities for the removal of human excreta. Addressed to engineers, sanitarians, medical officers, and project planners, the book concentrates on technical options suitable for householders building their own latrines, whether in small communities, rural areas, or deprived urban settlements. Details range from line drawings illustrating features of design and construction, through a list of reasons why improved sanitation may elicit negative responses from users, to instructions for calculating the internal dimensions of a septic tank.

“... an intriguing book...”
— International Journal of Environmental Studies

Free of charge

For information on availability of these documents, please refer to: www.who.int/water_sanitation_health

Looking Back: Looking Ahead
Five Decades of Challenges and Achievements in Environmental Sanitation and Health

Over the last 50 years WHO has generated, evaluated and shared new knowledge on safe disposal of excreta, sewage and community waste and been at the forefront of exploring the linkages between environmental pollution and change, and people’s health and livelihoods.

Electronic access: http://www.who.int/water_sanitation_health/hygiene/envsan/lookingback/en/

The Sanitation Challenge: Turning Commitment into Reality

The provision of sanitation is a key development intervention - without it, ill-health dominates a life without dignity. This document summarises the key thinking about how these targets can be met. It suggests actions that can be taken at different levels and by different actors to change the pace of sanitation improvement.

Electronic access: http://www.who.int/water_sanitation_health/hygiene/envsan/sanitchallenge/en/

Evaluation of the Costs and Benefits of Water and Sanitation Improvements at the Global Level

The aim of this study was to estimate the economic costs and benefits of a range of selected interventions to improve water and sanitation services, with results presented for 17 WHO sub-regions and at the global level.

By G. Hutton and L. Haller
Electronic access: http://www.who.int/water_sanitation_health/wsh0404/en/

The SAFE Strategy – Preventing Trachoma
A guide for environmental sanitation and improved hygiene

This manual forms part of the comprehensive SAFE strategy that has been developed for controlling trachoma through the action of a combination of determinants including surgery, antibiotics treatment, facial cleanliness and trachoma control, which focus on improving hygiene and the environment.

by S.P. Mariotti and A. Priess
WHO, 2000, 36 pages, WHO/PBD/GET/00.7 [E/F]
Request for this document should go to WHO, Blindness and Deafness Programme, Email: trachoma@who.int
Operation and Maintenance of Urban Water Supply and Sanitation Systems
A Guide for Managers

Describes a systems approach to the operation and maintenance of drinking-water and sanitation services in urban areas of developing countries. The guide, which is intended to serve as a reference source and conceptual framework, covers virtually all the procedures, activities, projects, and areas of managerial responsibility, at different levels, needed to ensure that water supply and sanitation services function continuously, efficiently, and to their full capacity. Emphasis is placed on procedures that can help control water losses.

1994, ix + 102 pages [C*, E, F]
ISBN 92 4 154471 6
CHF 23.–/US $20.70
In developing countries: CHF 16.10
Order no. 11500416

Operation and Maintenance of Rural Water Supply and Sanitation Systems
A Training Package for Managers and Planners

This manual is intended for use in a two-week course or workshop with 12 to 15 participants. Course content, which was developed following almost seven years of field testing and revision, draws on lessons learned from the failure of many projects to produce sustainable services. Addressed to course facilitators, the manual contains abundant notes, background information, overheads, work sheets, exercises, and fact sheets specific to conditions seen in rural areas of the developing world.

2000, iv + 292 pages [E]
WHO/SDE/WSH/00.2
CHF 44.–/US $39.60
In developing countries: CHF 30.80
Order no. 19300182

Tools for Assessing the Operation and Maintenance Status of Water Supply and Sanitation in Developing Countries

Sets out a managerial framework, supported by specific assessment tools, for measuring and evaluating the status of operation and maintenance of water supply and sanitation services. The assessment tools described can be applied to a wide range of activities carried out by utilities, governments, and communities in both rural and urban settings.

2000, iv + 46 pages [E]
WHO/SDE/WSH/00.3
CHF 14.–/US $12.60
In developing countries: CHF 9.80
Order no. 19300180

Access information on WHO publications by visiting our e-commerce website: http://bookorders.who.int
Leakage Management and Control
A Best Practice Training Manual

This training manual is aimed at professionals responsible for Operation and Maintenance of water supply systems, who already have some experience of training. It will help the implementation of training activities and will be an important tool for trainers in the design, preparation and carrying out of training courses on leakage control.

by G. Wagner
2001, 227 pages [E]
ISBN 0-419-26050-1
£29.99
Distributed by Spon Press
(see introduction page for address)

Upgrading Water Treatment Plants
A comprehensive and practical guide providing the technical detail required to upgrade existing water treatment plants to increase processing efficiency and improve overall quality. An invaluable reference for civil engineers.

by M. Farley
2001, 173 pages [E]
WHO/SDE/WSH/01.1
CHF 20.–/US $18.00
In developing countries: CHF 14.–
Order no. 19300189

Free of charge
For information on availability of these documents, please refer to:
www.who.int/water_sanitation_health

Linking Technology Choice with Operation and Maintenance in the Context of Community Water Supply and Sanitation
A Reference Document for Planner and Project Staff
This document aims to help decision-makers from bilateral, multilateral and governmental agencies to identify the most appropriate technology for water-supply and sanitation projects in their area. It is focused on the needs of the developing country.

by F. Brikké and M. Bredero
2003, 137 pages, ISBN 92 4 156215 3
Electronic access:
http://www.who.int/docstore/water_sanitation_health/wss/flyer7.html

Access information on WHO publications by visiting our e-commerce website:
http://bookorders.who.int
Safe Management of Wastes from Health-Care Activities

This handbook provides the first comprehensive guide to the safe and efficient handling, treatment, and disposal of all categories of hazardous waste generated by health-care activities. Although the major emphasis is on waste generated by hospitals, guidelines and advice are also relevant to wastes produced in health centres, research facilities, and laboratories, or associated with home care or treatment in doctors’ and dentists’ practices. All components of a waste management policy – whether at national or institutional level – are considered in detail. Throughout, photographs, lines drawings, checklists, tables, and step-by-step procedures are used to enhance the practical value of the wealth of guidance provided.

This publication was awarded first prize in the public health category of the 2000 British Medical Association Book competition.

by A. Prüss, E. Giroult and P. Rushbrook
1999, xiv + 230 pages + 4 colour plates [E, C]
ISBN 92 4 154525 9
CHF 72.–/US $64.80
In developing countries: CHF 50.40
Order no. 11500453

Teacher’s Guide: Management of Wastes from Health-Care Activities

The teacher’s guide is a companion to the WHO handbook, Safe Management of Wastes from Health-Care Activities. Training materials include ready-to-copy texts for overhead transparencies or slides, lecture notes, handouts, exercises, worksheets, and evaluation forms. Apart from drawing attention to the public health and environmental hazards of health-care wastes, material for the course includes abundant technical information on various safe options for waste segregation, storage, collection, labelling, transport, treatment, and disposal.

by A. Prüss and W.K. Townend
1998, v + 227 pages [E]
WHO/EOS/98.8
CHF 35.–/US $31.50
In developing countries: CHF 24.50
Order no. 19300134

Guidelines for the Safe Disposal of Unwanted Pharmaceuticals in and after Emergencies

Interagency Guidelines

A practical guide to the safe disposal of large quantities of unwanted or unusable pharmaceuticals donated during emergencies or as part of developmental assistance. Drawing on experiences gained during the war in Bosnia and Herzegovina, the guidelines respond to both the hazards of expired or spoiled drugs and the high costs of their sorting and disposal. Emphasis is placed on cost-effective methods that pose a minimum of risks to public health and the environment.

by A. Prüss
1999, 31 pages [E]
WHO/EDM/PAR/99.2
CHF 8.–/US $7.20
In developing countries: CHF 5.60
Order no. 19300154

Free of charge

For information on availability of these documents, please refer to:
www.who.int/water_sanitation_health

Fact sheet: health care waste management to reduce the burden of disease, health-care waste needs sound management, including alternatives to incineration

This technical fact sheet highlights the risk factor of incineration and place it into context. It also proposes short, medium and long-term strategies, while remaining realistic as to the challenge faced in many developing countries.
WHO, 2004
Electronic access: http://www.who.int/water_sanitation_health/medicalwaste/en/

Policy paper: health care waste management - incineration of health-care waste and the formation of dioxins and furans

This policy paper states WHO’s stance on incineration. It highlights the risk factor of incineration and places it into context. It also proposes short-, medium- and long-term strategies, while remaining realistic as to the challenge faced in many developing countries.
WHO, 2004
Electronic access: http://www.who.int/water_sanitation_health/medicalwaste/en/

In preparation

For information on availability of these documents, please refer to:
www.who.int/water_sanitation_health

Review of Health Impacts from Microbial Hazards in Health-Care Wastes

This document aims at reviewing the scientific literature for findings on health impacts from microbiological hazards of health-care wastes.
WHO, expected 2005
Electronic access: http://www.who.int/water_sanitation_health/index.html
Journal on Water and Health

International Water Association (IWA) and World Health Organization (WHO) launch the new Journal of Water and Health in 2003 - the International Year of Freshwater. 4.5% of the Global Burden of Disease is related to water and sanitation shortcomings. This new journal represents a joint commitment to promote the highest-quality research and practice across the full range of challenges to harness water for health in developing and developed countries.

The Journal of Water and Health is a new peer-reviewed journal devoted to the dissemination of information on the health implications and control of waterborne microorganisms and chemical substances in the broadest sense. This is to include microbial toxins, chemical quality and the aesthetic qualities of water.

Editors:
- Charles P. Gerba, Department of Soil, Water and Environmental Science, University of Arizona, USA
- Paul R. Hunter, Medical School, University of East Anglia, UK - Paul Jagals, Faculty of Health and Life Sciences, Technikon Witwatersrand, South Africa
- Gillian D. Lewis, School of Biological Sciences, University of Auckland, New Zealand

Contributions will be published on the health-related aspects of the following areas:
- epidemiology
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- detection and ecology of pathogens in the environment
- water and wastewater treatment
- disinfection
- disinfection by-products
- indicators of water and waste quality
- regulatory issues and standard development
- water quality surveys
- monitoring
- microbial toxins (including cyanobacteria)
- chemical and physical quality of water as it affects health
- endocrine disruptors
- taste and odour
- impacts of water quality on food quality
- impact of climate change on water quality
- water-based diseases
- water-based insect vectors of disease
- water policy and health
- health effectiveness of water management

IWA, 2003, ISSN1477-8920

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**Healthy Villages**
A Guide for Communities and Community Health

This guide is intended to provide community leaders with information to assist them in implementing and sustaining a health villages project. It covers topics such as water and sanitation drainage, waste management, housing quality, domestic and community hygiene, and provision of health services, providing extensive source materials for adaptation to local needs and conditions.

by G. Howard, C. Bogh, G. Goldstein, J. Morgan, A. Prüss, R. Shaw, and J. Teuton
2002, 118 pages [E, F]
ISBN 92 4 154553 4
CHF 22.– / US $ 19.80
In developing countries: CHF 15.40
Order no 11500494

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**The Right to Water**

This publication, outlines the scope and content of the legal definition of the human right to water and its relationship to other civil, cultural, economic, political, and social rights. In particular, water is closely linked and associated with the rights to food and nutrition, to work and to a healthy environment.

Health & Human Rights Publication Series, No. 3
2003, 43 pages [E]
ISBN 92 4 159056 4
CHF 10.– / US $ 9.00
In developing countries: CHF 7.–
Order no. 11500546

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**Inheriting the World**
The Atlas of Children’s Health and the Environment

This atlas articulates where and why more than three million children die every year due to unhealthy environments. It tackles issues as diverse as the devastating and largely unknown impact of indoor air pollution, the unfashionable tragedy of sanitation, and complex emerging issues like climate change.

2002, vi + 142 pages [E]
ISBN 92 4 159015 6
CHF 30.–/US $27.00
In developing countries: CHF 21.–
Order no. 11500586

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**Children in the New Millennium**
Environmental Impact on Health

This book provides an overview of key environmental risks to children’s health and the underlying causes. Highlighted are children’s special vulnerability and susceptibility to environmental threats at each developmental stage, during pregnancy, infancy and early childhood, through to school age and adolescence. Specific environmental threats of major importance to children are described, including lack of safe water and sanitation, chemical pollution and radiation, indoor and outdoor air pollution and natural resource degradation.

By B. Gordon, R. Mackay and E. Rehfuess
2004, 64 pages [E]
ISBN 92 4 159156 0
CHF 30.–/US $27.00
In developing countries: CHF 21.–
Order no. 11500586

2002, vi + 142 pages [E]
ISBN 92 4 159016 5
CHF 15.–/US $13.50
In developing countries: CHF 10.–
Order no. 11500581
Food, Water and Family Health
A Manual for Community Educators

An illustrated manual, for use in health education, that encourages poor rural communities to introduce simple environmental modifications to promote health and prevent disease. Particular attention is given to elements of basic hygiene and sanitation that protect children from diarrhoeal disease. Written in a simple yet lively narrative style, the manual uses vivid stories, dialogue, and drawings to make its vital health messages relevant to the community setting. Information ranges from drawings illustrating the construction of filtration systems for drinking-water, through instructions for mixing oral rehydration salts, to advice on how fast-breeding fish species can be used to control mosquito larvae and improve nutrition.

1994, v + 99 pages [E, F]
WHO/HEP/94.2
CHF 17.–/US $15.30
In developing countries: CHF 11.90
Order no. 19300130

Free of charge
For information on availability of this document, please refer to http://www.who.int/water_sanitation_health/

Primary School Physical Environment and Health
WHO Global School Health Initiative

Promoting the health of children through schools has long been an important task of WHO. In November 1991 an expert consultation was jointly convened by WHO, UNICEF and UNESCO to gain a common understanding of comprehensive school health education and to outline action for countries to consider to strengthen implementation. From WHO’s contemporary perspective, school health programmes are today one of the critical factors for realizing Health For All.

1997, 84 pages [E, F]
WHO/EOS/97.15
CHF 12.–/US $10.80
In developing countries: CHF 8.40
Order no. 19300133

In preparation
For information on availability of this document, please refer to http://www.who.int/water_sanitation_health/

Legal Aspects of Water Management
A Practical Guide

This joint publication is aimed principally at policy-makers and those advising them in the technical and regulatory areas of water management. Its objective is to clarify what water experts need to know about the legal issues and principles, and to guide legal experts in the technical areas where water regulation and legislation is most needed.

WHO and FAO, expected mid-2005

The Physical School Environment
An Essential Component of a Health-Promoting School

This document includes information to create a healthy school environment, and to identify and modify aspects of the physical environment that jeopardize safety and health. The document also contains guidance to ensure that positive changes in a school’s physical environment are supposed, reinforced and sustained by school health policy, skills-based health education and school health services, the core components of an effective school health programme as called for in the initiative to focus resources on Effective School Health.

By WHO, UNICEF, UNESCO, EDC, WorldBank, PCD, Education International
Electronic access: http://www.who.int/ceh/publications/cehphysical/en/
**Water and Health in Europe**
A joint Report from the European Environment Agency and the WHO Regional Office for Europe

This publication provides information on many of the issues such as adequate supplies of drinking-water and sanitation, water for irrigation and recreational use, monitoring of hazards, and public participation in decision-making. The evidence presented was collected through an extensive coordinated data-gathering process, in which many organizations and individuals throughout the European Region have cooperated.

Edited by J. Bartram, N. Thyssen, A. Gowers, K. Pond and T. Lack
WHO Regional Office for Europe
WHO Regional Publications, European Series, No. 93
2002, xxi + 222 pages [E]
ISBN 92 890 1360 5
CHF 50.–/US $45.–
In developing countries: CHF 35.–
Order no. 13100093

**Prevention and Control of Enterohaemorrhagic Escherichia coli (EHEC) Infections**
Report of a WHO Consultation

Records the results of a consultation convened to explore the health hazards posed by recent outbreaks of Escherichia coli O157:H7 and other enterohaemorrhagic E. coli (EHEC) infections. The report opens with a brief summary of what is known about E. coli O157:H7. The second and most extensive section profiles the epidemiology of EHEC infections in eleven countries.

1997, ii + 43 pages [E]
WHO/FSF/FO9/97.6
CHF 10.–/US $9.00
In developing countries: CHF 7.–
Order no. 19300107

**Considerations in Evaluating the Cost Effectiveness of Environmental Health Interventions**
This work constitutes a background document with preliminary considerations of methods for economic evaluations in environmental health.

by G. Hutton
WHO, 200, 88 pages, WHO/SDE/WSH/00.10 [E]
Electronic access: http://www.who.int/environmental_information/Disburden/WSH00-10/WSH00-10TOC.htm

**The Protocol on Water and Health: What it is, Why it matters**
This Protocol, representing the first major international legal approach for controlling water-related disease, was signed at the Third M inisterial Conference on Environment and Health (1999) by 35 countries. A user friendly booklet for ministries, local authorities, water professionals, health professionals, NGOs and all who care about and work for clean, healthy water.

Published by WHO Regional Office for Europe and the UN Economic Commission for Europe
Electronic access: http://www.unece.org/env/water

**Climate Change and Human Health**
Risks and Responses

Climate and weather have always had a powerful impact on human health and well-being. Global climate change is, therefore, a newer challenge to ongoing efforts to protect human health. This volume seeks to describe the context and process of global climate change, its actual or likely impacts on health, and how human societies and their governments should respond, with particular focus on the health sector.

2003, 333 pages [E]
ISBN 92 4 156248 X
CHF 20.– / US $ 18.00
In developing countries: CHF 14.–
Order no. 11500051


"...The research base that demonstrates that the earth is warming at a rate unprecedented during post-hunter-gatherer human existence, and that this will have significant and serious impacts on human health, is now beyond dispute. If ever a review of growing evidence puts this beyond question it is this superbly researched and comprehensive review... well worth the buy."

- South African Medical Journal
Water for Health: WHO Guidelines for Drinking-water Quality
An updated brochure that takes into account changes made to WHO’s Guidelines for Drinking-water Quality.


Water for Health: Taking Charge
This report was launched on World Water Day 2001. It aims at raising awareness on the vital links between adequate clean, safe water and health, poverty alleviation, well being and overall sustainable development.

WHO, 2001. 35 pages. WHO/WSH/WWD/01.1 [E, F]

SaniCon poster set
These posters are available in Acrobat PDF format, each is about 100K. They can be downloaded and printed on A4 paper. Their aim is to raise awareness on World Water Day – celebrated each year on 22 March.

The posters are:
1. Sanitation and Safe Food
2. Hygiene Saves Lives
3. Sanitation Saves Your Blood
4. Sanitation Saves Children
5. Sanitation Keeps You Healthy


Water, Sanitation and Health posters
A set of seven posters available in English, and three in French. They can be downloaded and printed on A4 paper, and can be used at events to promote Water for Health.

Water, Sanitation and Health at the World Health Organization
Health risks around the water cycle
Water resource planning
Improving water, sanitation and health reduces water-related diseases
Water supply and sanitation - a basic human right
Water Quality is vital for health
Arsenic in drinking-water: a hidden poison

Electronic access English: http://www.who.int/water_sanitation_health/General/posters.htm
Electronic access French: http://www.who.int/water_sanitation_health/General/postersf.htm

Inheriting the World posters - Water series
Five new posters of full-colour maps and graphs demonstrating the threats from water, sanitation and hygiene hazards that children face everywhere, and underscoring the impact of poverty on children’s health. Topics covered are Water for All: Making it Happen; Hurry Up in the Toilet; To Fetch a Pail of Water; Malaria; Fluoride and Arsenic in Drinking Water.

Electronic access: http://www.who.int/water_sanitation_health/en

Water, Sanitation and Hygiene Links to Health Facts and Figures - Updated March 2004
A one pager highlighting the most important facts and figures on water-related diseases, the driving forces and the global response necessary to achieve the Millennium Development goals.

Fact sheets and features available on WHO web site
Electronic access to WHO fact sheets  www.who.int/inf-fs/en/index_n.html

All fact sheets and feature stories provide the reader with main highlights and the latest information on the topic. They are also very useful as background and easy to use material.

Arsenic in drinking water
(Fact sheet # 210, English, French)

Ship sanitation and health
(Fact sheet # 269, English, French )
Electronic access:  http://www.who.int/inf-fs/en/fact269.html

Safe injection briefing note
(Fact sheet # 231/232/234, English, French)
Electronic access:  http://www.who.int/inf-fs/en/fact231.html

Bottled drinking-water
(Fact sheet # 256, English, French)
Electronic access:  http://www.who.int/inf-fs/en/fact256.html

Forty litres of water day
(Feature story # 205, English, French)

Water - Too little or too much the foremost cause of natural disaster
Fact sheets # 203, English, French)

Waste from health care activities
(Fact sheets #253, English, French)

Aide memoire on health care waste management
(English, French, Arabic, Russian)
Electronic access:  http://www.who.int/bct/Main_areas_of_work/DCT/Health_waste_management.htm

In preparation
For information on availability of these documents, please refer to:
www.who.int/water_sanitation_health

Guide to Ship Sanitation
Third edition
This entire updated edition of the Guide to Ship Sanitation is referred to in the International Health Regulations and is a companion volume to International Medical Guide for Ships. It describes environment and health hazards on board ships and their effective management.
WHO, expected 2005

WHO Guide to Hygiene and Sanitation in Aviation
Third edition
The WHO Guide to Hygiene and Sanitation in Aviation was first published in 1960 with a second edition in 1977. It is referenced in Article 14 of the International Health Regulation. The present volume predates the recognition of a number of important biological and physical hazards and, is presently being revised.
WHO, expected 2006
WHO/FAO legal and regulations database
The purpose of this online database is to bring together country level water legislation information to be used as a tool for policy/law makers, professionals in international agencies and others interested in water law, regulation and management. The database is in preparation.

WHO and FAO, 2003
Electronic access: http://www.waterlawstandards.org/

Database on WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation
This online database provides the status of coverage with drinking water and sanitation services on a world wide basis. It provides national, regional and world estimates on the use of improved drinking water and basic sanitation. It includes graphs, tables and the source information used for these estimates.

WHO and UNICEF, 2004
Electronic access: www.wsinfo.org

Access to the World Health Organization (WHO) web site: www.who.int

Access to Water, Sanitation and Health at WHO: www.who.int/water_sanitation_health/

Access to current and previous World Water Days web site: www.worldwaterday.org

Access to WHO fact sheets www.who.int/inf-fs/en/index_n.html

Access to information on safe health care waste management: www.healthcarewaste.org

Access to information on environmental sanitation and health: www.sanicon.net

Access to drinking water supply surveillance and monitoring in developing and transitional countries: www.lboro.ac.uk/watermark

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