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COMMUNITY WATER SUPPLY AND SANITATION

LIST OF PUBLICATIONS
AND DOCUMENTS

GENEVA, JANUARY 1993



WORLD HEALTH ORGANIZATION, GENEVA, 1993

FOREWORD

The present booklet is the fourth edition of the List of Publications and Documents produced by the World Health Organization in the community water supply and sanitation sector. It is organized in three sections.

I - WHO PUBLICATIONS

In this section are listed publications mentioned in the official WHO Catalogue. They are organized according to the same classification.

WHO Publications can be ordered from booksellers, subscription agencies (see inside back cover), or directly from WHO. Orders addressed to WHO must be accompanied by payment in Swiss francs, US dollars, or UNESCO coupons. Payment by credit card is accepted.

The information provided on Regional Offices publications is based on catalogues and documents available in the CWS Unit at the date of the preparation of the present list. As other valuable documents exist, readers should also refer to the catalogues of the Regional Offices of WHO.

II - TECHNICAL DOCUMENTS

Here are presented the documents produced by the Community Water Supply and Sanitation Unit (and the previous ETS and GWS Units) of the World Health Organization. For ease of reference, they are organized by subject, and within subject, in chronological order.

III - STAFF PAPERS

This section includes papers (most of them unpublished) prepared by WHO staff members on various occasions: conferences, meetings, training courses etc... Some of these papers have not been formally reviewed; thus, the views expressed are not necessarily those of the World Health Organization and are the responsibility of the authors.

Each reference is followed by a brief summary of the document contents, and the available languages are indicated according to the following codes:

Ar = Arabic; C = Chinese; E = English; F = French; R = Russian; S = Spanish; P = Portuguese

A list of abbreviations and acronyms is given at the end of the document, as well as the list of booksellers where WHO Publications may be obtained.

Comments should be sent to:

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CONTENTS

	<u>Pages</u>
I - W H O PUBLICATIONS	1 - 8
Non Serial	1 - 2
Monographs	2 - 3
Technical Report Series	3 - 4
WHO Offset Publications	4 - 5
Periodicals	5 -
Regional Publications	5 - 8
II - TECHNICAL DOCUMENTS	8 - 21
General	9 - 10
Community Participation	10 -
CWS (GWS/ETS) Series of Cooperative Action for the Decade	10 - 11
Environmental Management for Vector-Control	11 - 12
Human Resources Development	12 - 13
Human Resources Development Studies	13 - 14
Institutional Development	14 - 16
Operation and Maintenance	16 - 17
Planning, Monitoring, Evaluation	17 - 18
Resource Mobilization	18 - 19
Regional Documents	20 - 21
Water Sanitation and Health	21 - 22
III - STAFF PAPERS	23 - 24

NONSERIAL

Guide to Simple Sanitary Measures for Control of Enteric Diseases

by S. Rajagopalan and M.A. Shiffman
with a section on food and sanitation
1975, 103 pages, illustrated (E, F, R, \$¹)
ISBN 92 4 154047 8

Order N° 1150058 Sw.fr. 32.-
Price in developing countries: Sw.fr. 22.40

The present guide provides a compendium of knowledge of simple measures that can be implemented with limited resources to control enteric diseases; it is intended for the use of professional personnel responsible for public health and sanitary services in developing countries.

Slow Sand Filtration

by L. Huisman & W.E. Wood
1974, 122 pages (E, F)
ISBN 92 4 154037 0

Order N° 1150144 Sw.fr. 16.-
Price in developing countries: Sw.fr. 11.20

The object of this volume is to discuss the various aspects of one particular form of water treatment, the "biological filtration" or "slow sand filtration" process. This system of water purification has proved effective under widely differing circumstances. It is simple, inexpensive and reliable.

Community Wastewater Collection and Disposal

by D.A. Okun & G. Ponghis
1975, 287 pages (E, F)
ISBN 92 4 156045 2

Order N° 1150026 Sw.fr. 42.-
Price in developing countries: Sw.fr. 29.40

The present publication is directed specifically to engineers and others responsible for planning, designing and constructing community wastewater collection and disposal facilities in developing countries. It provides guidance on

the adaptation of current technology in accordance with local resources of funds, personnel and equipment.

Manuel du Technicien Sanitaire

by J.N. Lanoix et M.L. Roy
1976, 193 pages (F only)
ISBN 92 4 254057 9

Order N° 2150116 Sw.fr. 30.-
Price in developing countries: Sw.fr. 21.-

The aim of this publication is to serve as a handbook for the training of sanitary personnel in French speaking developing countries. It will also be a useful reference manual for those already on duty and will help others fill the gaps in their knowledge.

Drinking-Water and Sanitation, 1981-1990. A Way to Health A WHO contribution to the International Drinking Water Supply and Sanitation Decade

1981, 56 pages (E, F, \$¹)
ISBN 92 4 156068 1

Order N° 1150037 Sw.fr. 9.-
Price in developing countries: Sw.fr. 6.30

This publication is intended to inform all concerned at the national and international levels about WHO's Decade approach.

Guidelines for Drinking-Water Quality

A three-volume work developed to give health authorities guidance when establishing national standards for the control of drinking-water quality. In close to 600 pages of tables and text, readers are presented with the data necessary to assess the quality of drinking-water, recognize when its constituents or contaminants pose a health threat and then implement the most appropriate remedial measures. Promoting a risk-benefit approach to the safeguarding of drinking-water quality, the books stress the need to interpret recommended health criteria within the context of prevailing environmental, social, economic and cultural conditions. More than 100 specialists

from 39 countries collaborated in the production of these volumes, which now supersede both the European (1970) and International (1971) Standards for Drinking-Water.

Volume 1. Recommendations

1984, xii+130 pages (Ar, E, F, S¹)

(new edition in preparation)

ISBN 92 4 154168 7

Order N° 1151219 Sw.fr. 20.-

Price in developing countries: Sw.fr. 14.-

Presents recommended guideline values for all water constituents that must be controlled in order to assure that the consumer enjoys safe potable water.

Volume 2. Health Criteria and Other Supporting Information

1985, ix+335 pages (Ar, E, F, S¹)

(new edition in preparation)

ISBN 92 4 154169 5

Order N° 1152219 Sw.fr. 35.-

Price in developing countries: Sw.fr. 24.50

Reviews and interprets the extensive toxicological, epidemiological and clinical evidence that shaped the determination of guideline values for drinking-water control.

Volume 3. Drinking-Water Quality Control in Small Community Supplies

1985, 121 pages (Ar, E, F, S¹)

(new edition in preparation)

ISBN 92 4 154170 9

Order N° 1153219 Sw.fr. 17.-

Price in developing countries: Sw.fr. 11.90

A reference work for all laboratory staff field workers, and health administrators endeavoring to improve water-supply programs in rural areas of the developing world.

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

by D. Mara and S. Cairncross

1989, 194 pages (E, Ch, F, S)

ISBN 92 4 154 248 9

Order N° 1150324

Sw.fr. 35.-

Price in developing countries: Sw.fr. 24.50

This Publication contains a broad view of the global activities related to the utilization of human wastes as a valuable resource. It includes case studies from several countries as well as recommendations in terms of public health, sociocultural, environmental, economical, managerial and technical aspects of the use of wastewater, sludge and excreta in agriculture and aquaculture.

A Guide to the Development of on-site Sanitation

by R. Franceys, J. Pickford & R. Reed

1992, 237 pages, (E, F & S in preparation)

ISBN 92 4 154443 0

Order N° 1150380 Sw.fr. 47.-

Price in developing countries: Sw.fr. 32.90

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. 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, to adapt projects and programmes to the local situation, and to provide continuing support to the community after the system is installed.

MONOGRAPHS

Excreta Disposal for Rural Areas and Small communities

by E.G. Wagner & J.N. Lanox

Monograph Series N° 39, 1958, 187 pages, illustrated (E, F, S)

ISBN 92 4 140039 0

Order N° 140039 Sw.fr. 24.-

Price in developing countries: Sw.fr. 16.80

This monograph is addressed to public health administrators, medical officers of health and others engaged in public health. They will find in it not only technical data relating to particular

rural excreta disposal facilities but also information on what is believed to be needed or to be done in order to achieve success in programme of excreta disposal in rural areas and small communities.

Operation and Control of Water Treatment Processes

by C.R. Cox

Monograph Series N° 49, 1964, 390 pages, illustrated (E, F, R)

ISBN 92 4 140049 8

Order N° 1140049 Sw.fr. 49.-

Price in developing countries: Sw.fr. 34.30

This monograph deals specifically with the operation and control of water treatment processes designed to produce water for domestic purposes. Its aim is to serve the needs of plant superintendants, operators and laboratory personnel. The approach used has been not to present standards of design, but rather to reveal how to get the most from a plant already built.

Waste Stabilization Ponds

by Ernest F. Gloyna

Monograph Series N° 60, 1971, 175 pages, illustrated (E, F, S)

ISBN 92 4 140060 9

Order N° 1140060 Sw.fr. 14.-

Price in developing countries: Sw.fr. 9.80

The purpose of this monograph is to summarize the available information on waste stabilization ponds; it is directed specifically to the design engineer and it will assist him in selecting the most suitable design in the light of economic considerations, availability of raw materials, climatic conditions and social factors.

Surveillance of Drinking-Water Quality

Monograph Series N° 63

1976, 136 pages (E, F, S)

ISBN 92 4 140063 3

Order N° 1140063 Sw.fr. 29.-

Price in developing countries: Sw.fr. 20.30

In this publication are assembled information and guidelines for planning, organizing and operating programs for surveillance of drinking water quality at the national or regional levels in the

developing countries.

TECHNICAL REPORT SERIES

Expert Committees and other international groups of experts are convened to give advice on technical and scientific matters. The selection of members of such expert groups is based primarily on their ability and technical experience. The WHO Technical Report Series is the vehicle of publication of collective reports of such groups.

Treatment and Disposal of Wastes

Report of a WHO Scientific Group (Geneva, 1966)

Technical Report Series N° 367

1967, 30 pages (E, F)

ISBN 92 4 120367 6

Order N° 1100367 Sw.fr. 3.-

Price in developing countries: Sw.fr. 2.10

Water Pollution Control in Developing Countries

Report of a WHO Expert Committee (Geneva, 1967)

Technical Report Series N° 404

1968, 38 pages (E, R)

ISBN 92 4 120404 4

Order N° 1100404 Sw.fr. 5.-

Price in developing countries: Sw.fr. 3.50

Community Water Supply

Report of a WHO Expert Committee (Geneva, 1968)

Technical Report Series N° 420

1969, 21 pages (E, S)

ISBN 92 4 120420 6

Order N° 1100420 Sw.fr. 3.-

Price in developing countries: Sw.fr. 2.10

Solid Wastes Disposal and Control

Report of a WHO Expert Committee (Geneva, 1971)

Technical Report Series N° 484

1971, 34 pages (E, F)

ISBN 92 4 120484 2

Order N° 1100484 Sw.fr. 5.-

Price in developing countries: Sw.fr. 3.50

Techniques for the Collection and Reporting of Data on Community Water Supply

Report of a WHO Scientific Group (Geneva, 1971)

Technical Report Series N° 490

1972, 24 pages (E, F, S)

ISBN 92 4 120490 7

Order N° 1100490 Sw.fr. 3.-

Price in developing countries: Sw.fr. 2.10

Reuse of Effluents: Methods of Wastewater Treatment and Health Safeguards

Report of a WHO Meeting of Experts (Geneva, 1971)

Technical Report Series N° 517

1973, 63 pages (E, F, R, S)

ISBN 92 4 120517 2

Order N° 1100517 Sw.fr. 5.-

Price in developing countries: Sw.fr. 3.50

Disposal of Community Wastewater

Report of a WHO Expert Committee (Geneva, 1973)

Technical Report Series N° 541

1974, 57 pages (F, R, S) E out of print

ISBN 92 4 120541 5

Order N° 1100541 Sw.fr. 6.-

Price in developing countries Sw.fr. 4.20

Human Viruses in Water, Wastewater and Soil

Report of a WHO Scientific Group (Geneva, 1971)

Technical Report Series No 639

1979, 50 pages (E, F, S)

ISBN 92 4 120639 X

Order N° 1100639 Sw.fr. 4.-

Price in developing countries Sw.fr. 2.80

Technology for Water Supply and Sanitation in Developing Countries

Report of a WHO Study Group (Geneva, 1986)

Technical Report Series N° 742

1987, 36 pages (E, F, S)

ISBN 92 4 120742 6

Order N° 1100742 Sw.fr. 7.-

Price in developing countries: Sw.fr. 4.90

Health Guidelines for the Use of Wastewater in Agriculture and Aquaculture

Report a WHO Scientific Group (Geneva 1988)

Technical Report Series N° 778

1989, 74 pages, (E, Ar, F, S.)

ISBN 92 4 120778 7

Order N° 1100778 Sw.fr. 9.-

Price in developing countries: Sw.fr. 6.30

WHO OFFSET PUBLICATIONS

The International Drinking Water Supply and Sanitation Decade Review of National Baseline Data (as at 31 December 1980)

WHO Offset Publication N° 85

1984, 169 pages (E, F, S)

ISBN 92 4 170085 8

Order N° 1120085 Sw.fr. 15.-

Price in developing countries: Sw.fr. 10.50

Initial analysis of the Decade baseline situation in 87 developing countries.

The International Drinking Water Supply and Sanitation Decade

Review of Regional and Global Data (as at 31 December 1983)

WHO Offset Publications N° 92

1986, 30 pages (Ar, E, F, S)

ISBN 92 4 170092 0

Order N° 1120092 Sw.fr. 6.-

Price in developing countries: Sw.fr. 4.20

Summaries of some of the data collected during a survey carried out in 1984, to ascertain the status of water supply and sanitation services as at 31 December 1983, after 3 years of Decade implementation.

Guidelines for Planning Community Participation in Water Supply and Sanitation Projects

by Anne Whyte

WHO Offset Publication N° 96

1986, 60 pages (E, F, S)

Order N° 1120096 Sw.fr. 10.-

Price in developing countries: Sw.fr. 7.-

In water supply and sanitation programme, planners have come to realize that community participation is an essential ingredient for projects to be successful. The guidelines lead the planner through the "what, when, where, why, how and who" questions associated with the community participation process.

PERIODICALS

World Health, January-February 1990

Our Planet our Health, Think globally, Act locally.
1990, 31 pages, (E, F, P, S) Sw.fr. 4.-
Price in developing countries: Sw.fr. 2.80

World Health Statistics Quarterly

Environmental epidemiology
1990, volume 43, N°3, 79 pages, (E, F)
Order N° 0084303 Sw.fr. 24.-
Price in developing countries: Sw.fr. 16.80

World Health, July-August 1992

Water!
1992, 31 pages, (E, F, P, S)
Order N° 1079207 Sw.fr. 4.-
Price in developing countries: Sw.fr. 2.80

REGIONAL PUBLICATIONS AND TECHNICAL DOCUMENTS

Pan American Sanitary Bureau, Regional Office for the Americas

Environmental Health Activities of the Pan American Health Organization

Environmental series N° 1
1981, 40 pages (E², S)

Special feature on the International Drinking
Water Supply and Sanitation Decade in Latin
America and the Caribbean.

Environmental Health Activities of the Pan American Health Organization

Environmental series N° 2
1982, 154 pages (E², S)

Special features: water and sanitation operation
and maintenance of water systems in Latin
American and the Caribbean.

Drinking Water Supply and Sanitation: the International Decade in the Americas

Environmental series N° 3
1983, 82 pages (E², S)

Special features: planning, community
participation, appropriate technology, institutional
and human resource development, financing.

Symposio Regional sobre Recursos Humanos para el Decenio Internacional del Agua Potable y del Saneamiento Ambiental

Publicación científica 437
1983, 268 pages (S²) US\$ 8.-

Drinking Water Supply and Sanitary Disposal of Excreta in Marginal Urban Areas. Proceedings of the Symposium held in Santiago, Chile, 5-9 November 1984

Technical series N° 25
1986, 345 pages (E², S)

A remarkable aspect of the Symposium was the
common agreement on the fact that solutions to
the problems of water supply and sanitation
services in low-income human settlements,
require an innovative socio-technical approach,
wherein community participation should be
understood in its broadest possible sense.

Health and Environmental Criteria for the Utilization of Sewage Sludge on Land

Environmental series N°6
1989, 28 pages, (E²)

The application of sludge on land involves many problems of interdisciplinary nature requiring knowledge of public health, medicine, engineering and agronomy. Legislation provides the means for integrating all the above mentioned knowledge into adequate sludge management plans and control measures. These considerations are addressed in this document.

Regional Office for the Eastern Mediterranean

Wastewater Stabilization Ponds. Principles and Practice

WHO/EMRO Technical Publication N°10
1987, 138 pages (E, Ar)
ISBN 92 9 021001 X
Order N° 1450010 Sw.fr. 25.-
Price in developing countries: Sw.fr. 17.50

The first part of this book is intended for national and local administrators and decision-makers, who are faced with making a choice between competing systems for wastewater treatment. It provides a comprehensive summary concerning the various aspects of constructing, operating and maintaining pond systems. It also considers aspects such as management and safety. The second part is intended for persons making the preliminary designs on which cost estimates and, hence, choice, can be made. It is expected that architects or engineers with only little experience in the field could use the book for this purpose. It will also serve students and their lecturers as a basic yet detailed introduction to the topic.

Regional Office for Europe

Glossary on Solid Waste

compiled by P.K. Patrick
Nonserial publication of the
WHO Regional Office for Europe
1980, 92 pages (E only)
ISBN 92 9020 199 1
Order N° 1340003 Sw.fr. 12.-
Price in developing countries: Sw.fr. 8.40

This glossary is published to reduce possibilities of misunderstanding and facilitate communication in the field of solid waste management which involves many branches of engineering,

chemistry, hydrogeology and other sciences.

Appropriate Technology for the Treatment of Wastewaters for Small Rural Communities

Report on a WHO meeting (Lyon, 1982)
EURO Reports and Studies, N° 90
1985, 62 pages (E, F out of print)
ISBN 92 890 1256 0
Order N° 1330090 Sw.fr. 8.-
Price in developing countries: Sw.fr. 5.60

A report designed to guide the selection, technical construction, and maintenance of wastewater treatment systems best suited to the needs of small rural communities. Main chapters cover conventional sanitation systems, technical options for on-site waste disposal, and quality control requirements that should be met in the treatment of effluents, especially from the health standpoint. Also included is a chapter examining problems in the operation of treatment plants and in the training of staff who must assume responsibility for the efficient function, without interruption, of a selected system.

La Technologie Appropriée de Dénitrification de l'Eau Potable

Rapport sur un séminaire de l'OMS (Alger, 1981)
Nonserial publication of the WHO Regional Office for Europe
1985, 189 pages (F only)
ISBN 92 890 2012 1
Order N° 2340026 Sw.fr. 16.-
Price in developing countries: Sw.fr. 11.20

Training of Sanitary Engineers in Europe

edited by Robert B. Dean
Nonserial publication of the WHO Regional Office for Europe
1985, 198 pages (E only)
ISBN 92 890 1022 3
Order N° 1340025 Sw.fr. 16.-
Price in developing countries: Sw.fr. 11.20

A directory of European academic institutes offering training in sanitary engineering. Designed to aid the qualification of professionals attracted to this discipline, the book provides a country-by-country introduction to educational opportunities, including details on admission

requirements, language of instruction, credits, and degrees offered by all relevant institutes within a given country.

Standard Model Designs for Rural Water Supplies

Non serial publication of the WHO Regional Office for Europe
1986, 235 pages, illustrated (E only)
ISBN 92 890 1030 4
Order N° 1340031 Sw.fr. 60.-
Price in developing countries: Sw.fr. 42.00

This publication presents, in easily interpreted forms, a series of designs for the different units in a water supply system. The designs are intended to be used by small water enterprises or medium sized municipalities to prepare their own schemes with the maximum use of their own engineering and technical capabilities.

Disinfection of Rural and Small-Community Water Supplies. A Manual for Design and Operation

edited by Espinoza O, Benedek P, Warden J.
Non serial publication of the WHO Regional Office for Europe
1989, 135 pages, ill. (E only)²
Published by the Water Research Centre on behalf of the WHO Regional Office for Europe.

This publication relates particularly to the countries of the WHO European Region but is of much wider application. It describes not only the principles of disinfection, but also the practical measures required to make them work. It contains chapters describing source protection, supply systems and the management of rural water supplies.

Environment and Health. The European Charter and Commentary

European Series N°35
1990, 154 pages (E, F)
ISBN 92 890 1126 2
Order N° 1310035 Sw.fr. 26.-
Price in developing countries: Sw.fr. 18.20

The Charter, which was adopted by the final session of the First European Conference on Environmental Health, is a further extension of the European Health for All Policy and targets

adopted by the 32 Member States of the European Region of WHO in 1984. The Charter also incorporates the basic philosophy of the World Commission on Environment and Development, and represents a major step forward in the development of both public health and environmental policies. The present volume combines the Charter and the Commentary, an explanatory text originally provided as background for delegations to the Conference.

Regional Office for South-East Asia

Low-cost Water Supply and Sanitation Technology: Pollution and Health Problems

SEARO Regional Health Papers No. 4
1984, 40 pages, (E only)
ISBN 92 9022 173 9
Order N° 1580004 Sw.fr. 5.-
Price in developing countries: Sw.fr. 3.50

In many developing countries, low cost and simple technologies have generally been found "appropriate" and are being adopted on an increasing scale. Their simplicity and dispersed nature, however, can lead to poor construction and lack of maintenance at the community level. The objective of this publication is to stimulate greater awareness of the health aspects of these technologies.

Achieving Success in Community Water Supply and Sanitation Projects

SEARO Regional Health Papers N° 9
1985, 67 pages (E only)
ISBN 92 9022 178 X
Order N° 1580009 Sw.fr. 7.-
Price in developing countries: Sw.fr. 4.90

A problem-oriented manual designed to help planners achieve success in community water supply and sanitation projects in developing parts of the world. Based on local case studies conducted in nine Southeast Asian countries, the book presents a six-step procedure for use in designing projects that are not only technically correct and feasible but accepted and used by the community. Emphasis is placed on the use of community education and participation as a means of reducing the conceptual gap between

people and planners, a problem identified as a major cause of failure in previous community projects.

II. TECHNICAL DOCUMENTS

GENERAL

Monitoring and Evaluating the Strategy for WHO's Participation in the International Drinking Water Supply and Sanitation Decade

Report on an Interregional Meeting, Lima, Peru, 2-7 December 1985.

1986, 29 pages (E only)
WHO/CWS/86.1

The report evaluates the progress made in the principal areas of WHO activity and an attempt is made to identify what should be the changes of approach to be adopted in the remaining half of the decade.

International Drinking Water Supply and Sanitation Decade. Mid-Decade Progress Review

Report by the Director-General

1986, 21 pages (E, F, S)
A39/11

This report reviews developments and proposes action by Member States, the external support agencies and the Organization in the five years to the end of the decade.

Review of Progress of the International Drinking Water Supply and Sanitation Decade, 1981-1990: Eight years of Implementation

Report by the Director-General

1988, 13 pages (E, F)
EB83/3

Following an evaluation of the extent to which services are providing coverage, this report reviews health impacts, technology development and water resources among other aspects of the Decade; it concludes with a review of strategy for maintaining the momentum of water supply and sanitation development during the 1990s and

beyond.

Evaluation of the International Drinking Water Supply and Sanitation Decade, 1981-1990

Report by the Director General

1992, 17 pages, (E, F)
A45/15

The present report reviews the developments which took place during the Decade, identifies lessons learned and proposes approaches for the 1990s.

WHO Interregional Consultation on Global CWS Strategy. Rabat, Morocco, 22-24 March 1990

1990, 16 pages, (E)

WHO/CWS/90.6

This document contains a summary of the main points considered during a WHO Interregional Consultation on a Draft Global Community Water Supply and Sanitation CWS Strategy, Rabat, Morocco.

Water and Sanitation Management for Health

The role of community water supply and sanitation within the new global strategy for Environmental Health. Proposals for a new global CWS strategy.

1990, 8 pages (E)

WHO/CWS/90.18

This paper is a proposal by Headquarters and Regional Offices for the future directions of WHO in the CWS area. It was prepared for and discussed at an interregional consultation, held in Rabat, Morocco in March 1990. These proposals will continue to undergo review and discussion as part of the development of a new global environmental health strategy of WHO. In 1992, the Director-General will report to the World Health Assembly on the updated WHO Strategy for Community Water Supply and Sanitation. Until then, this paper may not be quoted as the official WHO policy in the field of water and sanitation.

1992 WORKPLAN

Community Water Supply and Sanitation Unit
CWS/92.7

This document is the workplan for the Community Water Supply and Sanitation Unit (EHE/CWS) of WHO Headquarters for calendar year 1992. It presents background policies and objectives, current HQ/CWS, individual activities, and resource allocations, both personnel and financial, for the year.

1991 ANNUAL REVIEW

Community Water Supply and Sanitation Unit
CWS/92.9

This document is a review of activities of the Community Water Supply and Sanitation Unit (EHE/CWS) of the WHO Headquarters for calendar year 1991. It contains a summary of the main HQ/CWS activities as set out in the 1991 Workplan and a brief discussion of the major trends influencing the work of the unit.

COMMUNITY PARTICIPATION

Final Review of Case Studies of Women's Participation in Community Water Supply and Sanitation

Report of a Workshop, Kupang, Indonesia, 23-27 May 1988
1989, 40 pages
SEA/EH/411⁴

To provide emphasis on women's participation in water supply and sanitation programmes and to demonstrate to policy-makers and implementors how this can be achieved, a UNDP assisted global project "Promotion of the role of women in water and environmental sanitation services (PROWESS)" began to operate in 1983. Through an inter-agency agreement, cases studies to document the experience in involving women in water supply and sanitation programmes were initiated in four countries of WHO/SEARO. Three regional workshops were held to bring together UNDP/PROWESS and SEARO, the participants in case studies and the governments concerned. The present document

is the report of the final workshop.

CWS (GWS/ETS) SERIES OF COOPERATIVE ACTION FOR THE DECADE

Catalogue of External Support

Publication N° 7
1985, 466 pages (E, F, S⁶)

The Catalogue is principally a dossier of statements relating to assistance for the drinking water supply and sanitation sector made by various donor agencies, banks and funds, international organizations, voluntary service and non governmental organizations.

Water Supply and Sanitation for Developing Countries. An International Sourcelist of Audiovisual Materials.

Publication N° 8
1987, 78 pages (E only)
WHO/CWS/87.A

Preliminary inventory of available audio-visual materials. The materials listed range from simple posters to multimedia modules. Each entry provides details such as date, duration, available languages, type of audience, name of the distributor, as well a brief outline of the content. Distributors index, titles index and subject index are included.

The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983)

1986, 181 pages (E, S) F out of print

This document presents data on the status of water supply and sanitation services in developing countries in December 1983. Read WHO Offset Publication No. 85 "Review of National Baseline Data (as at December 1980)", it indicates the progress achieved during the first three years of the International Drinking Water Supply and Sanitation Decade, and adjustments

which have been made to the Decade targets in those countries which have made changes.

The International Drinking Water Supply and Sanitation Decade. Review of Mid-Decade Progress (as at December 1985)

1987, 218 pages (E only)

This document presents data on the water supply and sanitation services in the six regions of the World Health Organization in December 1985, the mid-point of the IDWSSD. It is based on information provided by 111 countries.

The International Drinking Water Supply and Sanitation Decade. Review of Decade Progress (as at December 1988)

1990, (E only)

WHO/EHE/CWS/90.16

This document presents data on the status of water supply and sanitation services in developing countries in December 1988.

The International Drinking Water Supply and Sanitation Decade. End of Decade Review (as at December 1990)

1992, 113 pages (E only)

WHO/CWS/92.12

This document presents data on the status of water supply and sanitation services on developing countries as at December 1990, the end of the International Drinking Water Supply and Sanitation Decade.

The International Drinking Water Supply and Sanitation Decade

Series of booklets prepared on behalf of the Steering Committee for Cooperative Action.

Report of IDWSSD Impact on Diarrheal Disease

by Dr Steven A. Esrey

1990, N°1, (E, F)

The IDWSSD and Women's Involvement

by Ms Mary Elmendorf

1990, N°2, (E, F)

Report on ISWSSD Activities in Human Resources Development

by Dr Richard M. Ballance

1990, N°3, (E, F)

Report on IDWSSD Activities in Technical Information Exchange

IRC, International Water and Sanitation Centre

1990, N°4, (E, F)

Report on IDWSSD Impact on Dracunculiasis

by Dr Donald R. Hopkins

1990, N°5 (E, F)

Report on IDWSSD Impact on Schistosomiasis

by Dr F. DeWolfe Miller

1990, N°6 (E, F)

**ENVIRONMENTAL
MANAGEMENT
FOR VECTOR-CONTROL**

Panel of Experts on Environmental Management for Vector Control

Selected Papers from 3rd, 4th, 5th and 6th Meetings of the Panel

1987, (E only)

VBC/87.3

Water Resources Development and Vector-Borne Diseases in Kenya

Proceedings of a Seminar, Kisumu, 11-13 September 1988

1988, 101 pages (E only)

VBC/90.4

Guidelines for the Incorporation of Health Safeguards into Irrigation Projects through Intersectoral Cooperation

by Mary Tiffen

PEEM Guidelines Series N° 1

1989, (E, S)

WHO/CWS/91.2

Sw.fr. 25.-

Price in developing countries: Sw.fr. 17.50

These guidelines are written for policy-makers, planners and managers who find that an irrigation project has come within their area of responsibility, but who are themselves neither irrigation nor health specialists. Both the health and the engineering targets are discussed within an economic framework.

Guidelines for Forecasting the Vector-Borne Disease Implication of Water Resources Development

by M.H. Birley

PEEM Guidelines Series N° 2

1989, (E, S)

WHO/CWS/91.3

Sw.fr. 33.-

Price in developing countries: Sw.fr. 23.10

This is a workbook for anyone who wishes 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.

Panel of Experts on Environmental Management for Vector Control (PEEM)

Medium Term Programme 1991-1995

1991, (E)

WHO/CWS/91.7

Panel of Experts on Environmental Management for Vector Control (PEEM)

Report of the ninth Meeting (Geneva 11-15 September 1989)

Report of the tenth Meeting (Rome, 3-7 September 1990)

1991, (E)

WHO/CWS/91.11

HUMAN RESOURCES DEVELOPMENT

Caribbean Basin Water Management Project. Instructor's Manual and Planning Guide for Training of Trainers

A series of three 20-hour workshops.
1978, 435 pages. (E only)

The manual provides a complete package of the three 20-hour workshops. The objective of this document is to provide personnel already technically trained, with the necessary communication skills and instructional techniques required, to assist with or carry out training at their own utility as well as to assist with instructional programmes in their specialities at other locations.

Caribbean Basin Water Management Project. A Guide for Training Manual Developers

1980, 200 pages. (E only)

A primary concern of the Caribbean Basin Water Management Project is the training of water utility personnel. In order to achieve the type of training which the project considers desirable (i.e. the systematic development of attitudes, knowledge and skills necessary for an individual to satisfactorily perform a given task or job), performance-oriented materials must be used. The purpose of this manual is to teach local water utility employees to develop such materials.

Human Resources Development Handbook. Guidelines for Ministries and Agencies responsible for Water Supply and Sanitation

edited by Neil Carefoot and Howard Gibson
1984, 228 pages (Ar, E, F, S, Turkish)

WHO/CWS/ETS/84.3

(The Arabic, Spanish and Turkish editions are available respectively from the Regional Office

of the World Health Organization for the Eastern Mediterranean, P.O. Box 1517, Alexandria, Egypt, the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington, D.C. 20037, U.S.A. and the Regional Office of the World Health Organization for Europe, 8, Scherfigsvej, 2100 Copenhagen, Denmark).

This handbook is designed as a practical guide to implementing Human Resources Development. Its purpose is threefold: 1) to clarify the HRD concepts in current use; 2) to show how these concepts can be applied to organizations operating in water supply and sanitation; and 3) to guide water supply and sanitation agencies/ministries toward a more systematic approach to HRD and away from ad hoc actions.

JOB-GUIDES

The "Job-Guides" Project is a joint-venture project of the World Health Organization and the Norwegian Agency for International Development (NORAD). Job Guides developed under this projects concentrates on the installation, operation or maintenance of unsophisticated water supply and sanitation equipment in the village setting. They are intended to be used by workers, craftsmen, and/or technicians.

Maintenance of the Consallen Deepwell Handpump

1988, 14 pages (E)
WHO/CWS/88.8

Maintenance of the India Mark II Deepwell Handpump

1988, 20 pages (E, Swahili)
WHO/CWS/88.9

HUMAN RESOURCES DEVELOPMENT STUDIES

The World Health Organization and the Swedish International Development Authority (SIDA) are jointly producing a thematic series of case studies focussing on human resources development to both illustrate and document various methods, used in different parts of the World, which aim at improving human performance.

Managing the manager

1988, (E, only)
Case study N° 1
WHO/CWS/88.18

How the Philippines Water Utilities Administration monitors and supports General Managers of 350 Water Districts scattered all over the country.

Job descriptions prove their worth

1989, (E only)
Case study N° 2
WHO/CWS/89.1

How a training package was developed during an Organisation-Management-Training project for 11 Indonesian cities and is now being applied nationwide.

Training programme gets a new profile

1989, (E only)
Case study N° 3
WHO/CWS/89.2

How the Water Resources Institute In Tanzania reshaped its curricula to meet the country's need for skilled technicians

Strategic planning workshop sets development project on its feet

1989, (E only)
Case study N° 4
WHO/CWS/89.3

How a workshop in Tanzania created the turning point for a Health-Sanitation-Water programme.

People in focus

1989, (E only)
Case study N° 5
WHO/CWS/89.12

How the Brazilian water and sanitation company SANEPAR achieved success by putting its staff and customers first.

Manpower planning in progress

1989, (E only)
Case study N° 6
WHO/CWS/89.13

How Indonesia's water supply sector forecasts its manpower needs using only one variable.

Pooling resources beyond borders

1989, (E only)
Case study N° 7
WHO/CWS/89.14

How seven small countries in Central America improved operation and maintenance of their water supply sectors by joining forces.

Qualifying a manager

1989, (E only)
Case study N° 8
WHO/CWS/89.15

How the British water industry set up its Senior Management Development Programme to overcome a shortage of managerial staff.

Training the trainers

1990, (E only)
Case study N° 9
WHO/CWS/90.7

How the Benin Electricity and Water Supply Company tackled its training problems and developed its Training Centre for Water Supply Personnel.

Training a national training team

1990, (E only)
Case study N° 10
WHO/CWS/90.8

How a national training team for rural water supply and sanitation was developed in Zaire.

Improving management skills

1990, (E only)
Case study N° 11
WHO/CWS/90.9

How training for thirty top managers in Sri Lanka's National Water Supply and Drainage Board increased productivity and management performance, resulting in a much improved financial position.

INSTITUTIONAL DEVELOPMENT

Tariff Structures in Water Supply

by Louis Laugerl
1982, 6 pages (E, F, S)
WHO/ETS/82.2

The purpose of this review is to describe some of the most common features of water rates based on direct experience acquired in some fifty developing countries, and from more limited experience, and some reading knowledge, of tariff practices in developed countries.

Institutional Development in Community Water Supply and Sanitation

1986, 70 pages (E, F)
WHO/CWS/86.9

On the basis of the recommendations of various WHO consultations, this paper describes methods for institutional reviews, institutional development planning, constraints identification and conduct of institutional development programmes. These include the design of a decentralized institutional framework and the organization of resources transfers, the organization of intersectoral cooperation, the promotion of community motivation and involvement, human resources development and institutional implications of technology choices. The discussion of issues is illustrated by

numerous abstracts from case studies from 50 developing countries. Document 86.10 (below) is to be used as a companion document to 86.9.

Institutional Development in Community Water Supply and Sanitation. Themes and Questions

1986, 50 pages (E, F)
WHO/CWS/86.10

This document contains a fictitious case study (the Republic of Terrania) which describes the major themes of institutional development (e.g. decentralization, intersectoral cooperation, coordination, human resources development), each theme is illustrated by questions (for use in workshops and seminars), some answers are proposed in the companion document 86.9 (above).

Managerial and Financial Principles for Water Supply and Sanitation Agencies

Report of the Fourth Consultation on Institutional Development, Geneva, 21 - 25 November 1988 volume I
1989, 28 pages (E, F)
WHO/CWS/89.5

Principles and Models to achieve Sustainable Community Water Supply and to extend Household Sanitation

Report of the Fourth Consultation on Institutional Development Working Group on Cost Recovery, Geneva 21-25 November 1988
Volume II
1989, 40 pages (E, F)
WHO/CWS/89.6

The objective of the fourth consultation was to finalize the cost recovery models and guidelines and to identify follow-up inter-country and country activities.

Handbook of Financial Principles and Methods

1990, 100 pages (E, F, S)
WHO/CWS/90.10

This handbook is intended to assist all those who are concerned with financing sustainable water supply and sanitation systems. The managerial principles and methods which have been selected to inform and assist practitioners and decision-makers are geared towards financial viability and sustainability. Part I of the handbook provides a general conceptual framework based on the objective of full resources coverage. Part II deals with the practical aspects of implementation of sound financial principles.

Water Supply, Sanitation and Health in Rural Areas

Report of a Consultation of the WHO Working Group on Water, Sanitation and Health, Geneva, 27-28 June 1990
1990, 26 pages (E, F, S)
WHO/CWS/90.12

This document contains a review of the present situation, and recommendations on planning, technology choices and support programmes to improve water supply and sanitation facilities in the villages and for the dispersed populations of developing countries, which are often deprived of adequate services.

Consultation on Legal Issues in Water Supply and Wastewater Management, Geneva, 25-27 September 1990

Scope and Objectives, Organization and Agenda, Background Document
1990, 40 pages

Water Supply and Wastewater Management. Legal Issues in Water Resources Allocation, Wastewater Reuse, Water Supply Management

1990, 48 pages (E, F, S)
WHO/CWS/90.19

This report presents the recommendations of a FAO/WHO Consultation on legal constraints which have hampered the development of domestic water supply and sanitation. The major issues identified and addressed by the Working Group included the reallocation of water resources to ensure that preference is given to the domestic user, the institutional and legal

framework required to optimize water supply planning and management, and the legal regimes for wastewater use.

Water Supply, Sanitation and Health in Rural Areas

Report of the Second Consultation of the WHO Working Group on Water, Sanitation and Health, Geneva, 9-11 April 1991
1991, (E, F)
WHO/CWS/91.5

The report gives the results of the second consultation and summarizes the projects formulated in accordance with the conclusions of the Working Group on Water, Sanitation and Health.

Working Group on Water and Health, Nancy, France, 20-23 November 1991

Water Supply and Sanitation current Orientations in Sector Planning and Project Preparation.
1991, (E, F)
WHO/CWS/91.10

Legal Issues in Water Sources Allocation, Wastewater Use and Water Supply Management

Report of the Second Consultation of the FAO/WHO Working Group on Legal Aspects of Water Resources, Water Supply and Wastewater Management, Geneva, 10-12 September 1991
1991, (E, F)
WHO/CWS/92.6

The present report gives in part one the results of the second consultation and summarizes the projects formulated in accordance with the conclusions of the Working Group. Part two contains a case study illustrating a conflict over shared water resources.

Water Supply Sanitation and Health in Rural Areas

Report of the Third Consultation of the WHO Working Group on Water-Sanitation-Health, Geneva, 10-12 June 1992
1992, (E, F)
WHO/CWS/92.13

This report contains the conclusions and recommendations of the WHO Working Group on Water Sanitation and Health following its third consultation on the technical, institutional and financial aspects of development programmes in water supply and health in rural areas.

OPERATION AND MAINTENANCE

Rural Water Supply. Operation and Maintenance. Eight Questions to ask

1983, 15 pages (E, F, S)
ETS/83.9

This paper has been prepared to draw attention to the variety of factors which can influence operation and maintenance. Attention is focused on the operation and maintenance of rural water supply facilities as this area is of prime interest to WHO and to the Governments and external agencies concerned with rural water supply development.

Presentation for the National Workshop on Solid Waste Management, Cairo, Egypt, 9-11 July 1985

1985, 28 pages (E only)

Management of Solid Wastes:

A Collection of Papers presented at the WHO Inter-country Workshop on Solid Waste Management, Damascus, 1983
1986, 222 pages (E only)⁸
WHO-EM/ES/361-E

Sustainable Operations and Maintenance of Rural Water Supplies in the Sudan

edited by H. J. McPherson, A. Livingstone, Y. A. Mohamed, M. Liao
1989, 221 pages
WHO/CWS/89.19

The Sudan does not have a policy or consistent operation and maintenance strategy. Over the years a variety of approaches have been tried with varying degrees of success. These attempts have resulted in a wealth of accumulated experience with the operation and maintenance problem. The objective of the present conference was to bring together people from the water sector in the Sudan with representatives of external support agencies and individuals with experience in operation and maintenance from outside the country to review the operation and maintenance issues from rural water supplies and to develop a plan of action for tackling the problems.

**Proceedings of the Meeting of
Operation and Maintenance Working
Group, Geneva 19-22 June 1990**

Vol. I

1990, 25 pages (E only)

WHO/CWS/90.14

This document contains the report and recommendations of a working group convened by WHO and co-sponsored by the Federal Republic of Germany through the German Agency for Technical Cooperation (GTZ), which aim was to develop a strategy for the integration of current efforts in this field.

**Proceedings of the Meeting of
Operation and Maintenance Working
Group, Geneva 19-22 June 1990**

Vol. II

Case studies on operations and maintenance of rural and urban water supply systems.

1990, 119 pages (E only)

WHO/CWS/90.15

A number of the participants to the meeting of the operation and maintenance Working Group prepared case studies describing approaches and strategies in operation and maintenance for rural, urban and peri-urban areas in a wide range of countries. Papers were prepared for Brazil, Ghana, India, Lesotho, Mexico, Malawi, Nepal, Sudan, Vietnam, Zaire, Zambia and the Asian region. This volume presents these case studies in the hope that they will help decision makers and planners in the water supply sector to develop and implement more effective operation

and maintenance programmes.

**Proceedings of the Advisory
Committee Meeting of the Operation
and Maintenance Working Group
Geneva 26 February - 1 March 1991**

1991, (E only)

WHO/CWS/91.6

National governments and external support agencies are devoting increasing efforts to the rehabilitation of systems as a consequence of neglected operation and maintenance which is causing a severe drain on scarce resources. A Working Group was established with the objective of improving the performance of operation and maintenance. This report contains a description of the project proposals developed by the Advisory Committee together with the major recommendations of the fifth meeting.

**Management of Operation and
Maintenance of Drinking Water
Supply and Sanitation Systems**

1992, (E only)

WHO/CWS/92.11

This document has been prepared to provide managers and key personnel dealing with planning, organizational and financial issues in the water and sanitation agencies with guidance for programme formulation and implementation activities designed to improve the efficiency and effectiveness of operation and maintenance practices.

**PLANNING, MONITORING,
EVALUATION**

**Minimum Evaluation Procedure
(MEP) for Water and Sanitation
Projects**

1983, 51 pages (E & F new edition in preparation)

ETS/83.1 - CDD/OPR/83.1

This document describes a relatively cheap,

This document describes a relatively cheap, simple and quick method of evaluating water supply and sanitation projects. The guidelines are directed primarily towards managers of water supply and sanitation programmes in Member countries.

Guiding Principles for National Monitoring of the Water Supply and Sanitation Sector

1986, 14 pages (E, F, S)
WHO/CWS/86.6

These guidelines are designed to assist national authorities in creating and maintaining a regular mechanism for monitoring the water supply and sanitation sector.

Towards the Targets

An overview of progress in the first five years of the International Drinking Water Supply and Sanitation Decade

1988, 15 pages (E only)
WHO/CWS/88.2

This booklet is an interpretation of statistical data contained in the WHO Publication "The International Drinking Water Supply and Sanitation Decade Review of mid-decade progress (as at December 1985)". Analysis and comments are based on data provided by the countries themselves to the WHO Global Monitoring System for the IDWSSD.

RESOURCE MOBILIZATION

A global effort has been undertaken in connection with the International Drinking Water Supply and Sanitation Decade to improve the water supply and sanitation sector coordination among external support agencies, to define the key issues hampering the progress of the sector's development and to seek possible solutions to overcome them. During 1984-1986 a number of consultations among External Support Agencies (ESAs) took place with the purpose of coordinating external support activities at global

and regional levels during the Decade. The first one, hosted by the Federal Republic of Germany took place at Königswinter, in October 1984, and was followed by the first sector consultation at OECD/DAC in May 1985.

Regional External Support Consultations have followed as part of this effort. Their purpose is to provide a forum for dialogue between selected nationals closely associated with the sector, and the external support agencies. **Regional Resource Mobilization Profiles**, prepared in connection with these consultations provide an overall overview of the water supply and sanitation situation in the Regions, including present levels of services, past funding patterns, resource requirements and, particularly the role that the external support agencies may play in the future development of the sector.

The **Decade Consultative Meetings (DCMs)** organized and conducted by the countries themselves, are an opportunity for the Governments to inform the external community of their national policies and to present realistic, Decade oriented Plans, they provide a setting for an extensive dialogue to take place between national sector agencies and external support agencies likely to be associated with the development of the sector. The **Country Mobilization Profiles** are background documents for Decade Consultative Meetings. They contain an analysis of the sources of funds employed within the sector during the past few years and indicate the extent of known internal and external funding available to meet current and future requirements for developing and maintaining the sector.

Global and Regional Consultations

Global Sector Concepts for Water Supply and Sanitation

1987, 16 pages (E only)

The global concepts described in this document have emerged from a series of meetings of multilateral and bilateral donor organizations aimed at improving coordination and resource mobilization activities in support of the IDWSSD.

1988, 24 pages (E, F)
WHO/CWS/88.13

This consultation was the third and largest in a series of international consultations among support agencies active in the water supply and sanitation sector. The key objective was to carry forward coordinated strategies and resource mobilization activities to the end of the IDWSSD and beyond.

International Drinking Water Supply and Sanitation Consultation, The Hague, The Netherlands, 2-4 November 1988
1988, 16 pages (E only)
WHO/CWS/89.10

The Hague Consultation was the fourth international consultation among support agencies active in the water supply and sanitation sector, following meetings in Königswinter, Federal Republic of Germany, in October 1984, Paris, France, in May 1985, and Interlaken, Switzerland, in October 1987.

Latin America. Round Table of Managers of Water Supply and Sanitation Agencies on the Development of Water Supply and Sanitation during the Decade and Beyond 1990. Washington D.C., 10-12 May 1989
1989, 18 pages (E only)
WHO/CWS/89.17

The purpose of this meeting was to discuss the development of the sector during the IDWSSD in Latin America and look at sector issues beyond 1990. This document is a condensed version of the full report in Spanish.

ESA Collaborative Council Meeting, Sophia Antipolis, France, 28 November - 1 December 1989
Vol. I
1990, 36 pages (E, F)
WHO/CWS/90.1

This report presents the outcome of the first full meeting of the Collaborative Council of External Support Agencies active in the field of water supply and sanitation.

ESA Collaborative Council Meeting, Sophia Antipolis, France, 28 November - 1 December 1989
Vol. II, Background documents
1990, (E only)
WHO/CWS/90.2

Evaluation of the Drinking Water Supply and Sanitation Decade (1981-1990) in Latin America and the Caribbean: outlook to the 1990s and beyond
1990, 39 pages (E only)
WHO/CWS/90.11

This report focusses mainly on the contributions of the Collaborative Council of ESAs to the Decade in the Latin American and Caribbean Region and the major water supply, sanitation and waste management issues that will require special attention in the 1990s by both Latin American and Caribbean country governments and external support agencies.

Global Forum
Oslo, 18-20 September 1991
Hosted by Norway on behalf of the Nordic Sponsoring Countries
Vol I: Main Report
Vol II: Working Sessions' Reports
1992, (E, F, P, S)

REGIONAL DOCUMENTS

European Charter on Environment and Health

1990, 15 pages (E, F, G, R)³

Water and Sanitation Services in Europe

1989, EUR/ICP/CWS/0011³

The legal and administrative framework of water services in the different countries of Europe varies with the history of each country. The purpose of this document is to present an analysis of the data available by the end of the biennium 1988/1989 for the 32 members of the region.

High Cost of Water Supply Production and Sewerage Disposal and Cost containment in the Eastern Mediterranean Region

1989, 20 pages (E only)

EM/WKP.WSS.COST.REC³

Presented at the workshop on water supply and sanitation cost recovery in the Eastern Mediterranean Region, Rabat, Morocco 1989.

Report of the Regional Seminar on Drinking-Water Quality, Nicosia, Cyprus, 20-24 May 1991

1991, Alexandria, WHO Regional Office for Eastern Mediterranean
WHO/EM/ES/418-E³

The purpose of this seminar was to focus attention on a wider application of drinking-water quality and surveillance control programmes in the Region, to provide a forum for the exchange of experience and information on technical and managerial aspects and to ascertain the progress achieved in the formulation of national standards.

Regional Workshop on Women: Health, Water Supply and Sanitation, Alexandria, 7-9 July 1991

1991, Alexandria, Egypt, WHO Regional Office for the Mediterranean, 26 pages
WHO-EM/ES/419/E/L/02.92.1623³

The objectives of the workshop were: i) to review the extent of women's participation in health, water supply and sanitation projects in the Region; ii) to outline strategies and plans for enhancement of women's role in water and sanitation.

Manual on Water and Sanitation for Health in Refugee Camps

CEHA, WHO Centre for Environmental Health Activities, UNEP Regional Office for West Asia 1991, 61 pages + ann.
CEHA Document N°TLM-1

This manual is a joint UNEP/WHO Publication. It is designed for environmental health officers working in the Palestinian refugee camps but it is also applicable to other refugee situations as well as to other isolated communities located far from municipal water supply and sanitation systems. It emphasizes field operations and practical procedures.

Situation of Water Supply and Sanitation in the Caribbean Area

at the end of the International Drinking Water Supply and Sanitation Decade
WHO Regional Office for the Americas, Environmental Health Program
1991, 83 pages²

This document is an attempt to compile and extract the relevant information to the Caribbean from various documents, in order to have a more complete picture of the water and sanitation situation in the Caribbean at the end of 1990 and what was achieved by the countries during the International Drinking Water Supply and Sanitation Decade.

**Environmental Health and the
Management of Fresh Water
Resources in the Americas**

by Koning H W, Washington DC, WHO Regional
Office for the Americas
1992, 72 pages
Environmental series 10²

This document has been prepared to facilitate integrated decision-making by presenting an in-depth overview of the current water resources development and management issues. Special attention is being given throughout the text to the relevant health problems that are commonly associated with different types of water schemes.

**National Institutional Development
for Solid Waste Management**

Goals and Actions, Regional Consultation on
Solid Waste Management.
New Delhi, WHO Regional Office for South-East
Asia
1991, 7 pages
SEA/EH/450⁴

The present document aims at presenting a brief overview of the current problems of solid waste management in the South-East Asia Region and propose some goals which could be considered by national and external support agencies.

Directions in Drainage for the 1990's

Report of a Workshop on drainage, New Delhi,
22-24 October 1991

In October 1991, 30 environmental sanitation experts from 10 countries met in New Delhi to discuss the drainage of human settlements. This document contains the "Directions for Drainage for the 1990's" which summarize their conclusions. It also explains in detail the "Delhi Strategies and Actions for Drainage" developed at the workshop.

**WATER SANITATION
AND HEALTH**

**Safe Water Supply and Basic
Sanitation: An Element of Primary
Health Care**

A review of tasks at the home, communal and first referral levels
1982, 18 pages (E, F)
EHE/82.31

This document has been prepared to provide additional and more detailed guidance materials on those elements of the Decade approach concerned with the provision of health and related information to individuals and families.

**Benefits to Health of Safe and
Adequate Drinking Water and
Sanitary Disposal of Human Wastes**

Imperative considerations for the International
Drinking Water Supply and Sanitation Decade
1982, 19 pages (E, F)
EHE/82.32

This document examines the health benefits which, given the right conditions, may be achieved, and discusses the means by which the benefits may be maximized.

Maximizing Benefits to Health

An appraisal methodology for water supply and sanitation projects
1983, 45 pages (E, F, S)
ETS/83.7

This document considers the aspects that must be taken into account if maximum benefits are to result from investments in water supply and sanitation. A methodology is proposed which provides a quantitative result to assist in the selection of projects which have the greatest potential for success.

Appropriate Sanitation for Low Income Communities

Volume I: Background reader for a Workshop in
Harare, Zimbabwe, November 1991
1991, 36 pages, (E only)
WHO/CWS/92.4

This background document written by Peter Morgan of Blair Research Institute, provides some of the background to the problem and describes some technical solutions which may be practical in many areas of the subregion.

Appropriate Sanitation for Very Low Income Communities

Volume: II
Proceedings and Recommendations of a
Workshop in Harare, Zimbabwe,
19-22 November 1991
1991, 77 pages, (E only)
WHO/CWS/92.5

The objectives of the Workshop were to take a wide body of opinion from the African sub-region, and discuss current sanitation options, and formulate recommendations for future adoption in the areas of Technology, Hygiene Education, Community Mobilisation and Project Planning.

**INSTITUTIONAL DEVELOPMENT
PLANNING**

**Institutional Aspects of Preventive
Maintenance Programmes**

Regional Seminar on preventive maintenance of piped water supply systems, 22-27 March 1986, Centre for Environmental Health Activities, Amman, Jordan

by L. Lauger
1986, 32 pages (E only)

**Feasibility and Justification of Urban
Sanitation Development Plans,
Programmes and Projects**

Inter-country Workshop on acceleration of national programmes of sanitary disposal of human excreta, WHO/SEARO, New Delhi, 27-31 October 1986

by L. Lauger
1986, 6 pages (E only)

Dear Water for Poor People

by L. Lauger
in: *Coût et Prix de l'Eau en Ville*
1988, Paris: Presses de l'Ecole Nationale des Ponts et Chaussées

Water for All. Who Pays?

by L. Lauger
1987, World Health Forum
Vol.8 (4), (E, Ch, F, R, S)

**Economic Aspects of Wastewater
Reuse**

International Seminar on Wastewater Reuse, Sophia Antipolis, France, 1988

by L. Lauger
1989, 9 pages (E, F)

The Cost-Conscious Water Man

by L. Lauger
1989, 5 pages (E)
in: *World Water '89*, London

**Eau potable, Assainissement et
Santé en Afrique pour mieux lire les
Chiffres**

by L. Lauger
1992, 6 pages (F only)

**INTERNATIONAL DRINKING-WATER
SUPPLY AND SANITATION DECADE
AND BEYOND**

The Decade at Half-Time

by G. Watters
World Health
December 1986, pp. 27-29

**Health for All: the Legacy of the
Water Decade**

by D. B. Warner and L. Lauger
1991, 8 pages (E)

A World Water Supply?

by D. B. Warner
Tetrapak House Magazine
1992, 72 pages 44-45, (E only)

**MONITORING - EVALUATION
INFORMATION**

**Water Supply and Sanitation
Information Systems**

by G. Watters
1988, 7 pages (E only)

Monitoring and Evaluation of Integrated Water Supply and Sanitation Project

Paper presented at the Nordic Meeting on low Cost Water Supply and Sanitation, Uppsala, 30-31 May 1988
by G. Schultzberg
1988, 8 pages (E only)

Information Systems for Water Supply and Sanitation Programme Development

Paper prepared for the second Meeting of the Regional Decade Advisory Committee, Eastern Mediterranean Region, Nicosia, Cyprus, 20-23 June 1988
by M. A. Acheson
1988, 16 pages (E only)

New Roles for Monitoring and Evaluation in Water Supply and Sanitation

by D. B. Warner
1990, 9 pages, (E only)

WATER AND HEALTH

Health Benefits of Improved Operation and Maintenance of Water Supply and Sanitation Services

Paper presented at the 16th Congress of the International Water Supply and Association, Rome, November 1986
by M. S. Suleiman
1986, 28 pages (E only)

Community-Based Health Education: Interventions in Community Water Supply and Sanitation

Paper presented at the Consultation on Health Education in Food Safety, Geneva, 27 April - 1 May 1987
by G. Schultzberg
1987, 7 pages (E only)

Health and Technical Aspects of the Use of Wastewater in Agriculture and Aquaculture

by I. Hespanhol
1988, 45 pages (E only)

The Interface Between Engineering and Medicine

Paper presented at the Institution of Water and Environmental Management Annual Symposium, Manchester
by G. Watters
1990, 18 pages (E only)

Guidelines and Integrated Measures for Public Health Protection in Agricultural Reuse Systems

by I. Hespanhol
1990, Aqua
Vol.39, N°4, pp. 237-249 (E only)

WOMEN

Research Needs in Women's Participation in Water Supply and Sanitation

by M. Simpson-Hebert
1991, 9 pages (E only)

Women, Environment and Health

by M. Simpson-Hebert
1991, 6 pages (E only)

NOTES

1. The spanish edition is available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington DC, USA.
2. Available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington D.C. 20037, USA.
3. Available from the Regional Office for Europe, Regional Office of the World Health Organization, 8 Scherfigsvej, 2100 Copenhagen, Denmark.
4. Available from the Regional Office of the WHO for South-East Asia, Indraprastha Estate, Mahatma Gandhi Road, New Delhi 110002, India.
5. The Spanish edition is available from CEPIS, casilla 4337, Lima 100, Perou.
6. Available from the Regional Office of the WHO for the Eastern Mediterranean, P.O. Box 1517, Alexandria, Egypt.

ABBREVIATIONS AND ACRONYMS

BMZ	Bundesministerium für Wirtschaftliche Zusammenarbeit (German Federal Ministry for Economic Cooperation)
CBWM	Caribbean Basin Water Management
CDD	Diarrhoeal Diseases Control
CWS	Community Water Supply and Sanitation
DCM	Decade Consultative Meeting
EHE	Environmental Health
EMRO	WHO Regional Office for the Eastern Mediterranean, Alexandria
ESA	External Support Agency
ETS	Environmental Health Technology and Support
EURO	WHO Regional Office for Europe, Copenhagen
FAO	Food Agriculture Organization
GWS	Global Promotion and Cooperation for Water Supply and Sanitation
HRD	Human Resources Development
IDWSSD	International Drinking Water Supply and Sanitation Decade
NORAD	Norwegian Agency for International Organization
PROWESS	Promotion of the Role of Women in Water and Environmental Sanitation Services
SEARO	WHO Regional Office for South East Asian, New Delhi
SIDA	Swedish International Development Agency
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
WHO	World Health Organization
WRC	Water Research Centre