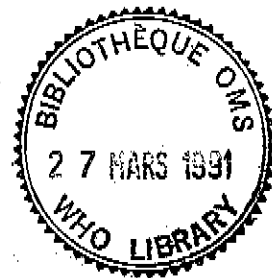


COMMUNITY WATER SUPPLY AND SANITATION

LIST OF PUBLICATIONS AND DOCUMENTS

GENEVA, MARCH 1991



WORLD HEALTH ORGANIZATION, GENEVA, 1991

FOREWORD

The present booklet is the third 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.

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This section includes papers (most of them unpublished) prepared by WHO staff members on various occasions: conferences, meetings, training courses etc...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; 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:

The Manager
Community Water Supply and Sanitation
Division of Environmental Health
World Health Organization
Avenue Appia

1211 - Geneva 27
Switzerland

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I - WHO PUBLICATIONS

NON SERIAL

Guide to Simple Sanitary Measures for the Control of Enteric Diseases

by S. Rajagopalan with a section on food and sanitation by M.A. Shiffman
1974, 103 pages, illustrated (Ar, E, F, R, S)
ISBN 92 4 154047 8, order N° 1150058

Sw.fr. 25.-

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.-

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, R)
ISBN 92 4 156045 2, order N° 1150026

Sw.fr. 42.-

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.-

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, S)

ISBN 92 4 156068 1, order N° 1150037

Sw.fr. 9.-

(The Spanish edition is available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington DC, USA - Publicación Científica, No 431)

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

**International Drinking Water Supply and Sanitation Decade. National Decade Plans:
Eight Questions they answer**

1982, 18 pages (Ar, E, F, S)

ISBN 92 4 1560076 2, order N° 1150205

Sw.fr. 3.-

This booklet outlines the desirable content of a national "Decade" plan in the form of eight questions that it should answer.

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, S)

ISBN 92 4 154168 7, order N° 1151219

Sw.fr. 20.-

(The Spanish edition is available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington DC, USA - Publicación Científica, No 481)

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, S)

ISBN 92 4 154169 5, order N° 1152219

Sw.fr. 38.-

(The Spanish edition is available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington DC, USA).

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, S)

ISBN 92 4 154170 9, order N° 1153219

Sw.fr. 17.-

(The Spanish edition is available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington DC, USA).

A reference work for all laboratory staff field workers, and health administrators endeavouring to improve water-supply programmes 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, S, F in preparation)

ISBN 92 4 154 248 9, order N° 115023

Sw.fr. 35.-

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.

MONOGRAPHS

Composting, Sanitary Disposal and Reclamation of Organic Wastes

by H.B. Gotaas

Monograph Series N° 31, 1956, 205 pages, illustrated (E, F)

ISBN 92 4 140031 5, order N°1140031

Sw.fr. 35.-

The purpose of this monograph is to present methods and processes by which organic waste materials, which constitute a health hazard and a source of disease communication, may be treated for sanitary disposal and utilization in agriculture.

Excreta Disposal for Rural Areas and Small communities

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

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

ISBN 92 4 140039 0, order N°1140039

Sw.fr. 28.-

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 programmes 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 and S out of print)

ISBN 92 4 140049 8, order N° 1140049

Sw.fr. 52.-

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. 20.-

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.-

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

PUBLIC HEALTH PAPERS

Urban Water Supply Conditions and Needs in Seventy-Five Developing Countries

by B.H. Dieterich & J.M. Henderson

Public Health Papers N° 23, 1963, 92 pages (E only)

ISBN 92 4 130023 X, order N° 1110023

Sw.fr. 3.-

Presentation of the principal findings of a study on the state of urban water supplies and future needs in a number of countries regarded as being representative of the developing parts of the world.

Problems in Community Wastes Management

by H.M. Ellis, W.E. Gilbertson, O. Jaag, D.A. Okun, H.I. Shuval & J. Sumner

Public Health Papers N° 38, 1969, 89 pages (E, F and S out of print)

ISBN 92 4 130038 8, order N° 1110038

Sw.fr. 6.-

Unrestricted and haphazard disposal of wastes constitutes a clear threat to public health all over the world. The papers presented here deal with the management of solid and liquid wastes.

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.-

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.-

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, ordre N° 110042

Sw.fr. 3.-

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.-

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)

ISBN 92 4 120490 7, order N° 1100490

Sw.fr. 3.-

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, S)

ISBN 92 4 120517 2, order N° 1100517 Sw.fr. 7.-

Disposal of Community Wastewater

Report of a WHO Expert Committee (Geneva, 1973)

Technical Report Series N° 541, 1974, 57 pages (Ar, F, R, S, E out of print)

ISBN 92 4 120541 5 Sw.fr. 6.-

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.-

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.-

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, F, S,)

ISBN 92 4 120778 7, order N° 1100778 Sw.fr. 9.-

WHO OFFSET PUBLICATIONS

Community Water Supply and Excreta Disposal. Situation in the Developing Countries. A commentary

by C.S. Pineo & D.V. Subrahmanyam

WHO Offset Publication N° 15, 1975, 41 pages (F, E and Ar out of print)

ISBN 92 4 170015 7

Sw.fr. 12.-

In 1971 and 1972 a global survey was carried out of community water supply and excreta disposal conditions and needs in the developing countries in both urban and rural centres. The present publication is an analysis and commentary of the salient data resulting from this survey.

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 (Ar, E, F, S)

ISBN 92 4 170085 8, order N° 1120085

Sw.fr. 15.-

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 (E, F, S)

ISBN 92 4 170092 0, order N° 1120092

Sw.fr. 6.-

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

In water supply and sanitation programmes, 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.

WHO/CWS/91.1

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PERIODICALS

World Health, January-February 1990

Our Planet our Health, Think globally, Act locally, (E, F)

World Health Statistics Quarterly

Environmental epidemiology

1990, volume 43, N°3, 79 pages, (E, F)

order N° 0084303

Sw.fr. 24.-

REGIONAL PUBLICATIONS AND TECHNICAL DOCUMENTS

Pan American Sanitary Bureau. Regional Office of the WHO

Environmental Health Activities of the Pan American Health Organization *

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

Special feature on the International Drinking Water Supply and Sanitation Decade in latin American and the Caribbean.

Environmental Health Activities of the Pan American Health Organization*

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

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 (E, 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.

* Available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington D.C. 20037, U.S.A.

Health and Environmental Criteria for the Utilization of Sewage Sludge on Land
Environmental series N°8, 1989, 28 pages.

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.

*Available from the Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington D.C. 20037, U.S.A.

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.-

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.

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.REC.

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

Regional Office for Europe

Health Aspects of Treated Sewage Re-use. Report on a WHO Seminar (Algiers 1980)

EURO Reports and Studies, N° 42

1981, 42 pages (F, E out of print)

ISBN 92 890 1208 0, order N° 2330042

Sw.fr. 4.-

Conclusions, recommendations and summaries of the most significant points raised at a WHO seminar on the use of treated sewage as a reliable source of water for many purposes.

Rural Water Supplies. Report on a WHO Meeting (Stevenage, UK, 1982)

EURO Reports and Studies, No. 87.

1983, (E, F)

ISBN 92 890 1253 6, order N° 1330087

Sw.fr. 7.-

Report and recommendations of a meeting whose scope and purpose was to consider the current technology applied to small water supply systems in Europe, particularly in isolated rural communities.

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.-

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.-

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.

Solid Waste Management. Selected Topics

edited by Michael J. Suess

Nonserial publication of the WHO Regional Office for Europe

1985, 210 pages (E only)

ISBN 92 890 1023 1, order N° 1340020

Sw.fr. 15.-

A collection of four state-of-the-art reviews covering available technologies for the treatment and disposal of solid wastes.

La Technologie Appropriée de Déminéralisation 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.-

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.-

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.-

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)
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 only)

ISBN 92 890 1126 2

Sw.fr.26.-

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.

European Charter on Environment and Health

1990, 15 pages (E, F, G, R)

Water and Sanitation Services in Europe

1989, EUR/ICP/CWS/011

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.

Regional Office for South-East Asia

Management of Solid Wastes in Developing Countries

by F. Flintoff

WHO Regional Publications, South-East Asia Series, No. 1

1976, 244 pages, illustrated (E, Ar)

ISBN 92 9022 101 1, order N° 1560001

Sw.fr. 20.-

This book is designed primarily to guide Indian municipal officers who are responsible for the collection and disposal of solid wastes. Its orientation has been influenced, however, by experience gained during numerous assignments in various developing countries.

Typical Designs for Engineering Components in Rural Water Supply

WHO Regional Publications, South-East Asia Series, No. 2

1976, 49 pages, illustrated (E only)

ISBN 92 9022 102 X, order N° 1560002

Sw.fr. 30.-

This volume of drawings is the result of a study made in the South East Asian Region and of a careful selection of typical designs which have been used successfully for supplying water from a variety of surface and groundwater sources.

Low-cost Water Supply and Sanitation Technology: Pollution and health problems

SEARO Regional Health Papers, No. 4

1984; (E only)

ISBN 92 9022 173 9, order N° 1580004

Sw.f. 5.-

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, Ar in preparation)

ISBN 92 9022 178 X, order N° 1580009

Sw.fr. 7.-

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.

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.

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.

COMMUNITY PARTICIPATION

People first, water and sanitation later. Community partnership in the International Decade.

1987, 38 pages (E)
WHO/CWS/87.3

This document starts with a look at the sources and implications of the International Drinking Water Supply and Sanitation Decade, declarations of and policy intentions, given the present planning, organizational, administrative, political and economic situations. It then turns to the challenge of involving communities and creating the mechanisms and necessary personnel to forge partnership.

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/411

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

Minimum Evaluation Procedure (MEP) for Water Supply and Sanitation projects

Publication N° 6

1985, 14 pages, illustrated (E only)

This booklet describes in an abbreviated manner a relatively low-cost, simple and quick method of evaluating water supply and sanitation projects.

Catalogue of External Support

Publication N° 7, 1985, 466 pages (E, F, S). (The Spanish edition is available from CEPIS, Casilla 4337, Lima 100, Peru).

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.

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

1986, 181 pages (E, S) ^{WHO/CWS/87.1} out of print

This document presents data on the status of water supply and sanitation services in developing countries in December 1983. Read alongside 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.

Water supply and sanitation for developing countries. An international sourcelist of audiovisual materials.

Publication N° 8, 1987, 78 pages (E only)
WHO/CWS/87.4

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

Report of IDWSSD Impact on Diarrheal Disease.

by Dr Steven A. Esrey
1990

The IDWSSD and Women's Involvement.

by Ms Mary Elmendorf
1990

Report on ISWSSD Activities in Human Resources Development.

by Dr Richard M. Ballance
1990

Report on IDWSSD Activities in Technical Information Exchange.

IRC, International Water and Sanitation Centre
1990

Report on IDWSSD Impact on Dracunculiasis.

by Dr Donald R. Hopkins
1990

Report on IDWSSD Impact on Schistosomiasis.

by Dr F. DeWolfe Miller
1990

ENVIRONMENTAL MANAGEMENT FOR VECTOR-CONTROL

Panel of Experts on Environmental Management for Vector Control. Report of the fifth meeting, Bangkok, 7-11 October 1985

1985, (E only)

VBC/85.5

Panel of Experts on Environmental Management for Vector Control. Report of the sixth meeting, Geneva, 8-12 September 1986

1986, (E only)

VBC/86.2

Panel of Experts on Environmental Management for Vector Control. Report of the seventh meeting, Rome, 7-11 September 1987

1987, (E only)

VBC/87.2

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

Guidelines for the incorporation of health safeguards into irrigation projects through intersectoral cooperation

by Mary Tiffen

1989, (E only), PEEM Guidelines Series N° 1

VBC/89.5

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
1989, (E only), PEEM Guidelines Series N° 2
VBC/89.6

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.

Policies and programmes of governments, bilateral and multilateral agencies and development banks for environmental management in the context of natural resources, agriculture and health development

by T.H. Mather and R. Bos
1989, 111 pages (E only)
VBC/89.7

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

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.

Workshop overview for the Dual-Focus Programme

1989, 124 pages (E only)

WHO/CWS/89.8

The **Dual Focus Programme**, which currently deals with performance problems in the water supply and sanitation sector, is both a leadership and an organizational development programme - hence the name, "Dual Focus". The approach focusses simultaneously on both individual and organizational performance. This package describes day-by-day experiences of a Dual Focus Workshop, which took place in Amman, Jordan in November 1987. What was experienced, how the exercise was conducted, and why it was important are briefly described.

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 Case 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.

INSTITUTIONAL DEVELOPMENT

Republic of Costa Rica: water supply and sewerage tariff study
WHO/The World Bank Cooperative Programme
1980, 25 pages (E only)

This report, which was used in tariff legislation reforms, contains, in 10 tables, a method of analysis and projection of the financial statements of water utilities including supporting data on demand for community water supply and sanitation services and relevant projections of investment and recurrent costs.

Republic of Terrania: a case study on the economic and financial aspects of programmes and projects in the drinking water supply and sanitation sector
1980, (E, F)

This publication, which has been used principally in workshops, contains a fictitious case study with five principal problem statements (nationwide planning, preparation of a rural water supply project, financial impact, tariff study, economic evaluation), a methodology for solving each of these problems, and broad guidelines for solutions. More recent versions (WHO/CWS/85.5 - out of print - and WHO/CWS/86.10) deal with the institutional development aspects of the CWS sector in the same fictitious Terrania context.

Tariff structures in water supply
by Louis Lauger
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.

National institutional development for water supply and sanitation. Report of an informal consultation, New-Delhi, 24-28 June 1985
(Available from the Regional Office for South East Asia, World Health House, Indraprastha Estate, Gandhi Road, New Delhi 110002, India).

Institutional development in community water supply and sanitation. Report of an informal consultation, 18-22 November 1985

1986, 24 pages (E, F)

WHO/CWS/86.4

The objectives of the consultation were to review the situation in institutional development in community water supply and sanitation, half-way through the International Drinking Water Supply and Sanitation Decade; to identify the constraints which have hampered the development of national institutions; and to recommend actions and formulate plans for the gradual removal or reduction of identified constraints.

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).

Cost recovery in community water supply and sanitation. Report of the Second Informal Consultation in Institutional Development, Geneva , 5-9 October 1987

1987, 41 pages (E, F)

WHO/CWS/87.5

This consultation dealt principally with transfers of funds. Its general objective was to recommend improvements in community water supply financial management in order to extend supplies to an increasing number of beneficiaries generally by collecting more revenue from those already served.

Draft guidelines on cost recovery in community water supply and sanitation. Report of the Third Informal Consultation on Institutional Development, Geneva, 11-15 April 1988,

The Hague, 21-23 June 1988

1988, 75 pages (E, F)

WHO/CWS/88.7

The objective of the third consultation was to review the recommendations of the second consultation and to prepare in draft form relevant guidance material which would subsequently be submitted to potential users and beneficiaires.

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 in preparation)

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 in preparation)

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 in preparation)

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.

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.

Preventive maintenance of rural water supplies

1984, 36 pages (E, F)

WHO/CWS/ETS/84.11

Preventive maintenance is considered to be a systematic and periodic maintenance procedure applied to the components of a system in order to minimize breakdowns, ensure their efficient working and prolong their respective lives. In this paper, the attention is focused on rural water supply, i.e. one which employs the most simple technology possible, and supplies communities which are not commonly self sufficient in their technical or financial support of the system.

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

1985, 28 pages (E only)

(Available from the Regional Office for the Eastern Mediterranean, P.O.Box 1517, Alexandria, Egypt)

Management of solid wastes : a collection of papers presented at the WHO Intercountry Workshop on Solid Waste Management, Damascus, 1983

1986, 222 pages (E only)

WHO-EM/ES/381-E

(Available from the Regional Office for the Eastern Mediterranean, P.O.Box 1517, Alexandria, Egypt)

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.

PLANNING, MONITORING, EVALUATION

Minimum Evaluation Procedure (MEP) for water and sanitation projects

1983, 51 pages (E, F)

ETS/83.1 - CDD/OPR/83.1

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.

International Drinking Water Supply and Sanitation Consultation, Interlaken, Switzerland, 13-16 October 1987

1988, 24 pages (E, F, P)

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.

Inter-agency Round Table on Water Supply and Sanitation in Africa, Brazzaville, 15-18 December 1987

1988, 27 pages (E, F)
WHO/CWS/88.1

The Brazzaville meeting was the culmination of a long tradition of cooperative efforts in support of the Decade. This inter-agency meeting was an early response to the request of the Interlaken Consultation during which priority was assigned to Africa.

International Meeting on Water Supply and Sanitation Decade Development, Lisbonne, Portugal, 19-22 April 1988

1988, 10 pages (E only)
WHO/CWS/88.5

This meeting was the occasion of an exchange of information on the situation and the governments policies, programmes and priority projects in the water supply and sanitation sector of the five portuguese-speaking countries of Africa.

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 Köningswinter, Federal Republic of Germany, in October 1984, Paris, France, in May 1985, and Interlaken, Switzerland, in October 1987.

International Drinking Water Supply and Sanitation Decade. 1990 Committee, Paris 7-9 December 1988

1988, 25 pages (E only)
WHO/CWS/89.11

The 1990 Committee reviewed the list of activities identified at the Hague Consultation and agreed that these should be the main focus of the Collaborative Council's work programme. The Committee then focused on ways of determining priority activities for coordinated sector support at the country level.

International Drinking Water Supply and Sanitation Decade. 1990 Committee, Geneva, 31 May - 2 June 1989

1989, 24 pages (E only)
WHO/CWS/89.16

This document presents the outcome of the the second meeting of the 1990 committee.

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.

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**ESA Collaborative Council Meeting, Sophia Antipolis, France,
28 November - 1 December 1989, Vol. I**

1990, 36 pages (E, F, S)

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

WATER 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.

III - STAFF PAPERS

HUMAN RESOURCES DEVELOPMENT

HRD in the implementation process. Paper presented to a seminar (February 1986) in Arusha, Tanzania

by N.F. Carefoot

1986, 7 pages (E only)

Human Resources Development in the International Drinking Water Supply and Sanitation Decade. Contribution to a book entitled "Developing World Water"

by N.F. Carefoot

1986, 4 pages (E only)

INSTITUTIONAL DEVELOPMENT - PLANNING

The need for a strategy for rural water supply

by I. Ahman, Journal of the Association of Engineers and Architects in Israel, N°11, 1980, pp. 54-64

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. Laugeri

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. Laugeri

1986, 6 pages (E only)

Dear water for poor people

by L. Laugeri

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. Laugeri

1987, World Health Forum, Vol.8 (4), (E, F)

Economic aspects of wastewater reuse. International seminar on Wastewater Reuse, Sophia Antipolis, France, 1988

by L. Laugeri

1989, 9 pages (E, F)

The cost-conscious water man

by L. Laugeri

1989, 5 pages (E)

in: World Water '89, London

INTERNATIONAL DRINKING-WATER SUPPLY AND SANITATION DECADE

The Decade in Europe

by G. Watters

World Health, August-September 1982, pp. 9-11

The Decade at half-time

by G. Watters

World Health, December 1986, pp. 27-29

MONITORING - EVALUATION - INFORMATION

Transfer of technology. Paper presented at the Symposium Water 2000, 40th Anniversary of the International Water Supply Association, Nice, September 1987

by M. A. Acheson

1987, 14 pages (E only)

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)

WATER AND HEALTH

WHO guidelines for drinking water quality. Paper presented at the International Water Supply Association Congress, 6-10 September 1982, Zurich, Switzerland

by H. Galal Gorchev and G. Ozolins

1982, 10 pages (E, F, S)

Drinking-water quality and health. Paper presented at the Seminar on Drinking-water Quality Standards, Khartoum, Sudan

by H. Galal Gorchev

1986, 9 pages (E only)

Safe drinking-water for small communities. Paper presented at the Inter-Country Workshop on Low-Cost Water Supply and Sanitation Options, Amman, Jordan

by H. Galal Gorchev
1986, 6 pages (E only)

Setting national drinking-water standards. Paper presented to a National Inter-agency Committee, Amman, to develop drinking-water standards for Jordan

by H. Galal Gorchev
1986, 6 pages (E only)

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, (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)

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OPERATION AND MAINTENANCE

Proposal for a strategy on operation and maintenance and optimization of water supply and sanitation systems in urban areas

by J. Hueb
1989, (E only)

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
GWS	Global Promotion and Cooperation for Water Supply and Sanitation
HRD	Human Resources Development
IDWSSD	International Drinking Water Supply and Sanitation Decade
SIDA	Swedish International Development Agency
WHO	World Health Organization