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WOMEN'S ROLES IN WATER SUPPLY AND SANITATION IN DEVELOPING COUNTRIES:

A FOUR-PART BIBLIOGRAPHY

BY AUTHOR, SUBJECT, PHASE OF
DEVELOPMENT, AND COUNTRY

WASH TECHNICAL REPORT NO. 21

FEBRUARY 1984



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Prepared For:
Office of Health
Bureau for Science and Technology
U.S. Agency for International Development
Task No. B-410

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Prepared for the Office of Health, Bureau for Science and Technology,
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Prepared by
Alice J. Smith

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WOMEN'S ROLE IN WATER SUPPLY AND SANITATION IN DEVELOPING COUNTRIES

Introduction

The Water and Sanitation for Health (WASH) Project, in conjunction with the United Nations Development Program (UNDP), is pleased to issue this bibliography on Women's Roles in Water Supply and Sanitation in Developing Countries. The bibliography includes over one-hundred documents selected from the WASH Library and from materials supplied by Dr. Mary Elmendorf with documentation assistance from Ms. Leslie Rose and the TransCentury Foundation. This bibliography supplements WASH Technical Report No. 18 Community Participation and Women's Roles in Water Supply and Sanitation in Developing Countries, November 1982, a part of which appears as Appendix A herein. Appendix B lists several documents published or identified recently that were not included in the main bibliography.

Emphasis on Women in the International Drinking Water Supply and Sanitation Decade (IDWSSD).

Traditionally women in rural and urban fringe areas play major roles in the use and management of water supplies and sanitation facilities. Yet many improvement schemes have not taken adequate account of this fact. In line with a growing recognition of the important impact which women can have on the success of such programmes, the United Nations Steering Committee for Cooperative Action for the IDWSSD established a Task Force on Women and the Decade in April 1982, chaired by UNICEF. In June 1983, UNDP approved an interregional project funded by the Norwegian Government, which aims at promoting women's active involvement in planning and implementation of water supply and sanitation improvements and in related health education activities. This bibliography has been produced to support these efforts by assisting in the establishment of an information base on this subject. It can be used in various training activities to be undertaken by the project, as well as serving as a tool for a broad audience of project managers, contractors, project personnel, government officials, non-governmental organizations and researchers engaged in water supply and sanitation-related activities.

How To Use

A main author index is followed by (I) a subject index, (II) an index according to phase of development, and (III) a country index. The entries in the author index are arranged alphabetically and numbered sequentially. The Roman numerals following each entry refer to subsequent indices, and the small letters apply to the sub-categories appearing on the following code page. The subject index has been designed for use in a training or classroom setting and is similar to course reading assignments where the most relevant and useful documents are highlighted and followed by a short description. Others are listed for use if time and access permit. In the second section, documents pertaining to women's participation in particular phases of a water supply and sanitation project are listed by the numbers found in the author index. The phases of development are assessment, planning, implementation and evaluation.

Obtaining Documents

In every case where possible, the source of the document is noted so that it may be obtained directly. Addresses for frequently noted organizations appear in a separate listing. In most cases, authors and publishers will grant copying privileges to persons in third world countries so that the purchase of multiple copies (for training purposes) will not be necessary. In the few cases where the source is not listed, UNDP may be able to supply the needed document.

ACKNOWLEDGEMENTS

This bibliography would not exist without the contribution of Sally Coghlan and Jim Beverly who were responsible for overall management, Mary Elmendorf, Sally Timpson of UNDP, Raymond Isely, and Leslie Rose of TransCentury Foundation, who contributed actual listings and to the shaping of the document, and Barbara Furst, Yvonne Ways and Johnny Palmer who provided editing, word processing, and graphics services.

CODES

I. SUBJECT

- a. Appropriate Technology
- b. Social and Economic Development
- c. Education and Training
- d. Health
- e. Sociocultural Aspects

II. PHASES OF DEVELOPMENT

- a. Assessment
- b. Planning
- c. Implementation
- d. Evaluation

III. COUNTRY

ACRONYMS AND ADDRESSES WHERE DOCUMENTS MAY BE OBTAINED *

AED Academy for Educational Development
1414 22nd Street, N.W.
Washington, D.C. 20037

AID Agency for International Development
Document & Information Handling Facility
7222 47th Street, Suite 100
Chevy Chase, Maryland 20815

APDAC Asian and Pacific Development Administration Center
P.O. Box 2224
Persiaran Duta
Duala Lumpur, Malaysia

EPOC Equity Policy Center
1525 18th Street, N.W.
Washington, D.C. 20036

FAO Food and Agriculture Organization
Via delle Terme di Caracalla
001000 Rome, Italy

ICRW International Center for Research on Women
1010 16th Street, N.W.
Washington, D.C. 20036

IDRC International Development Research Centre
Box 8500
Ottawa K2G 3M9,
Canada

IRC International Reference Centre for Community
Water Supply and Sanitation
P.O. Box 5500
2280 HM Rijswijk
The Netherlands

OEF Overseas Education Fund of the League of Women
Voters
2101 L Street, N.W.
Washington, D.C. 20037

PAHO Pan American Health Organization
525 23rd Street, N.W.
Washington, D.C. 20006

SIDA Swedish International Development Association
105 25 Stockholm,
Sweden

TransCentury
Secretariat for Women in Development
1789 Columbia Rd., N.W.
Washington, D.C. 20009

UNICEF	United Nations Children's Fund 866 United Nations Plaza New York, New York 10017
UNDP	United Nations Development Program 866 United Nations Plaza New York, New York 10017
UNEP	United Nations Environmental Program P.O. Box 30552 Nairobi, Kenya
WASH	Water and Sanitation for Health Project (AID) 1611 N. Kent Street, Room 1002 Arlington, Virginia 22209
WB	World Bank 1818 H Street, N.W. Washington, D.C. 20433
WE	World Education 1414 Sixth Ave. New York, New York 10019
WHO	World Health Organization Avenue Appia 1211 Geneva 27, Switzerland

* If a source's address is not listed above, it appears in the bibliographic entry.

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SUBJECT INDEX

SUBJECT INDEX

a. APPROPRIATE TECHNOLOGY

Key Documents

16. Carr, Marilyn. Women and Technology in Rurally Oriented Projects. Notes on Women in Development, no. 13 (sectoral overviews). Office of the Advisor on Women in Development, World Bank, Washington, D.C., 1981.

Carr's main hypothesis is "... that rurally oriented development projects stand a greater chance of success if more consideration is given to the important role that women have to play in enabling potential benefits to be realized." In Section IV of this paper, she emphasizes the necessity of training women in technologies for improving the water supply, sanitation, and general home care. She also stresses that water projects risk failure if women are not involved in the planning stages, and she substantiates her remarks with specific examples which program planners should find interesting.

21. Dauber, Roslyn, and Cain, Melinda L., eds. Women and Technological Change in Developing Countries. Westview Press, 5500 Central Ave., Boulder, Colorado 80301, 1981.

According to the editors, technology benefits a whole population only when it permits the productive use of all human resources, female as well as male. This book considers developmental target areas - health, food, housing, and fertility - that concern women and assesses their roles both in adaptation to technological change and as agents of that change. The writings include policy surveys, specific country examples, and technologies appropriate for women such as those which relieve back-breaking, time-consuming labor. Policy and program planners who wish a community to gain maximum benefit from specific water projects will want to take this book into account.

70. Morgan, Mary, ed. Safe Water and Waste Disposal for Rural Health: A Program Guide. Water for the World Series. Prepared for AID. National Demonstration Water Project, 1725 DeSales St. N.W., Washington, D.C. 20036, 1982. (Available at WASH).

Section II of this thorough manual for water program planners and implementers discusses specific appropriate technologies for water supply and waste disposal systems. An overview of available water supply systems appears first, followed by in-depth coverage of topics such as the identification, retrieval, treatment, storage, and distribution of water. The same treatment, overview followed by specifics, is given to excreta disposal options ranging from non-water transport methods to industrial wastewater problems. Comprehensive source lists appear after each chapter. Other sections of the book cover health problems and effective training techniques.

77. O'Kelly, Elizabeth. Simple Technologies for Rural Women in Bangladesh. Women's Development Programme, UNICEF, Dacca, Bangladesh, 1977.

This handbook describes simple, manually operated machines and other appropriate technologies which rural women can use to shorten their work loads, particularly obtaining and transporting water. O'Kelly suggests ideas for use by local groups of women or other organizations engaged in rural development programs for women. The methods were originally compiled for use in Bangladesh but may also serve in other rural areas. A bibliography, list of material suppliers, and other useful addresses are also provided.

78. O'Kelly, Elizabeth. Water and Sanitation for All. Happy Healthy Homes Series, no. 4. Associated Country Women of the World, 50 Warwick Sq., London SW1V2AJ, England, 1982.

This pamphlet provides a brief guide to various technological options which should be open to field workers engaged in village water supply and sanitation improvement projects. Methods for obtaining and using water from the ground, surface, and rain are reviewed. Sketches accompany the descriptions of wells, pumps, latrines, and simple filtering systems among others. Although it is not intended as a complete "how-to-do it" book, names of some publications and organizations offering further technical assistance appear at the back. O'Kelly's overview is a good starting point for investigations into appropriate technological possibilities.

* * *

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SUBJECT INDEX

b. SOCIAL AND ECONOMIC DEVELOPMENT

Key Documents

6. AID, Bureau for Program and Policy Coordination. Women in Development. AID Policy Document. Bureau for Program and Policy Coordination, AID, Washington, D.C., October, 1982.

Section E of this AID policy description concerns the agency's approach to local women's involvement in water and sanitation development programs. AID recognizes that "women have a strong stake in the establishment of water and sanitation systems and an equally strong incentive to make sure the systems are adequately and continuously maintained." The paper urges that AID water projects include plans which train women as well as men in construction, operation, and long-term system maintenance. Researchers interested in AID's present approach to development programs should find this section useful.

28. Elmendorf, Mary, and Isely, Raymond B. "Public and Private Roles of Women in Water Supply and Sanitation Programs." Human Organization: Journal of the Society for Applied Anthropology, vol. 42, no. 23, Fall 1983, pp. 195-204. Society for Applied Anthropology, c/o William Bergman Associates, 1001 Connecticut Ave. N.W., Washington, D.C. 20036.

In this article, practical suggestions are made as to how women can be effectively involved in water and sanitation programs as acceptors, users, managers, and diffusers (change agents) of new technologies concerning water systems. Concrete examples of each are offered from field experiences. The authors base their writing on an extensive review of the literature, placing it within the context of theories concerning women's roles. Elmendorf and Isely outline participation-oriented approaches to future development projects which designers as well as field workers and trainers should find highly pertinent.

52. International Women's Tribune Centre, Inc. The Tribune. Women and Water. Newsletter 10. International Women's Tribune Centre, 305 East 46th St., New York 10017, 1982.

The twentieth issue of The Tribune quarterly concerns women and water and provides a comprehensive listing of resources, including audio-visual aids and agencies as well as publications dealing with the topic. The editors also give a brief overview of the world water situation and women's position in it as motivators, initiators, and managers. People seeking additional source material on women and water technology will find the bibliography exceedingly helpful.

70. Morgan, Mary, ed. Safe Water and Waste Disposal for Rural Health: A Program Guide. Water for the World Series. Prepared for AID. National Demonstration Water Project, 1725 DeSales St. N.W., Washington, D.C. 20036, 1982. (Available at WASH).

Water supply and sanitation program designers, managers, and field workers in developing nations will find this comprehensive manual of invaluable assistance in their work. Part I defines health problems related to water supply in rural areas; Part II presents appropriate technical solutions to those problems; Part III describes ways to match problems and solutions and effectively implement them. Chapters include descriptions of planning strategies, technical systems with specific examples, community participation concepts, cultural considerations, training methods, and evaluation procedures. A wide range of recognized authorities in their fields contributed to the book's preparation and have listed additional sources for further information.

83. Roark, Paula. Successful Rural Water Supply Projects and the Concerns of Women. Office of Women in Development, AID, Washington, D.C., September, 1980.

Paula Roark discusses "what" community participation is, "how" it works in rural water supply projects, and "why" women must be included in order to develop and maintain water programs successfully. Roark's field observations of the traditional relationships between women and local learning systems form the basis for her arguments. She outlines these local learning frameworks, integrating them into a set of guidelines for future AID water development programs. The book is particularly relevant for policy developers concerned with long-range community acceptance of technical systems and attention to sanitation hazards.

* * *

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2. Acharya, Meena, and Bennett, Lynn. Women and the Subsistence Sector: Economic Participation and Household Decisionmaking in Nepal. World Bank Staff Working Papers no. 526. World Bank, Washington, D.C. 1983.

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SUBJECT INDEX

c. EDUCATION AND TRAINING

Key Documents

3. Adams, Francis McStay. Education and Training for the World's Poorest Women and Girls. Report prepared for the Office of Women and Development, AID. Equity Policy Center, Washington, D.C., 1980.

Adams reviews AID policies toward education and training of women in developing countries since assistance began in the early sixties. While noting that AID's stated approach is supportive of the educational goals of the UN Decade for Women, she is critical that many programs are not in fact accomplishing those aims. She examines ways of more effectively putting the policies into actual practice. Her statements on the absolute necessity of including women in designing skills training programs, non-formal education plans, and management instruction courses should prove relevant to water project developers interested in supporting the UN's stated goals for educating the world's poorest women.

45. Haile, Tsehaye. "Community Participation in Rural Water Supply Development." Rural Water Supply in Developing Countries: Proceedings of a Workshop on Training held in Zomba, Malawi, August 5-12, 1980, pp. 89-95. International Development Research Centre, Ottawa, Canada, 1981.

This article, a collection of presentations on training, describes Ethiopian acceptance of the role of community participation in training for rural water development projects. Haile analyzes women's particular positions in this growing trend. He stresses that participation opportunities for women, once negligible, are now accepted in economic, social, political, and technological spheres. Improvements are still necessary, however. The complete book, in which this article appears covers sociological, technological, and operational considerations as they apply to water supply training.

67. McSweeney, Brenda Gael, and Freedman, Marion. "Lack of Time as an Obstacle to Women's Education: The Case of Upper Volta." Comparative Education Review, June, 1980, pp. 124-138. University of Chicago Press, 11030 S. Langley Ave., Chicago, Illinois 60628.

McSweeney and Freedman describe results of an evaluative study of a project designed to increase women's time for educational activities in Upper Volta. Mechanical mills for grain, accessible water wells, and carts for water transportation were introduced in an effort to ease women's work loads and free them for literacy, health, and other training programs. The technologies did improve the quality of the services, and the introduction of better wells "encouraged the adoption of health-related advice" although the results indicated that free time was more frequently spent in further care of home and family than in attending classes. The report should be useful for people determining a society's prerequisite needs before undertaking an extensive educational program.

70. Morgan, Mary, ed. Safe Water and Waste Disposal for Rural Health: A Program Guide. Water for the World Series. Prepared for AID. National Demonstration Water Project, 1725 DeSales St. N.W., Washington, D.C. 20036, 1982. (Available at WASH).

Chapters seven and eight in this guide make excellent initial reading for water project developers and trainers seeking to plan effective community participation programs. The involvement of local people in all project phases from assessment to maintenance is discussed as is the training of trainers. The authors cover several different strategies and suggest basic questions to ask during any analysis of training requirements. In addition to sections on various approaches, implementation, and continuing education, extensive source lists for more training information are provided.

93. Svendsen, Dian Seslar, and Wijetilleke, Sujatha. Navamaga: Training Activities for Group Building, Health and Income Generation. Overseas Education Fund, Washington, D.C. 20037, 1983.

Navamaga, which means "new path" in Sinhalese, is a handbook of more than sixty field-tested training activities to be used with women's or mixed groups at the village level. The following areas, plus many more, are covered: group building, decision making, cooperation, leadership, planning, nutrition, preventive health, income generation, and resource mobilization. The handbook is adaptable for many kinds of participants and situations including encouraging women to lead their families in sanitary water usage and waste disposal. Program developers may wish to use the activities described to obtain women's input when analyzing a village's water supply situation.

Additional Documents

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SUBJECT INDEX

d. HEALTH

Key Documents

5. Aguwa, Margaret I., ed. Women, Health, and International Development: Proceedings of the Conference on Women, Health, and International Development, East Lansing, Michigan, October 22-23, 1982. Office of Women in International Development, 202 Center for International Programs, Michigan State University, East Lansing, Michigan 48824, 1983.

The papers in this book cover broad health issues of primary concern to women in developing countries. R. Isely's and M. Elmendorf's piece on "Water and Sanitation-related Health Constraints on Women's Contribution to the Economic Development of Communities" specifically addresses the health consequences of women's overall roles and suggests processes for making improvements. They conclude that improvements are not a luxury for the poor and women but a major pre-condition for economic development. Other papers in this compilation further demonstrate the relationship between female health and society's qualitative growth.

29. Elmendorf, Mary, and Isely, Raymond B. The Role of Women as Participants and Beneficiaries in Water Supply and Sanitation Programs. WASH Technical Report no. 11. WASH, Arlington, Virginia, December, 1981.

This report stresses the use of women as acceptors, users, managers, and trainers for the introduction of innovative water supply and sanitation technologies. Emphasis is placed on women's extensive influence on family and community health via water supply and its usage. Elmendorf and Isely have thoroughly reviewed both the published and unpublished literature in preparation of this report. Program planners and primary health care workers should find specific strategies offered for involving women in the above-mentioned roles useful and effective.

38. Falkenmark, Malin, ed. Rural Water Supply and Health: The Need for a New Strategy. Summary of papers and discussions from the United Nations Interregional Seminar on Rural Water Supply, Uppsala, Sweden, October 6-17, 1980. Scandanavian Institute of African Studies, Box 2126, Uppsala, Sweden 75002, 1982.

Falkenmark's digest of the professional presentations made by speakers at the 1980 UN Interregional Seminar on Rural Water Supply will benefit those interested in the overall policy direction of the International Drinking Water Supply and Sanitation Decade. Part II of the paper covers the epidemiology of water-related diseases and the concern for creating community awareness of these health hazards. The crucial role of women in this process is continually emphasized, and the Decade's commitment to easing women's traditional water-related burdens is reiterated. A list of reports, speeches, and papers used in preparation of this summary appears at the end of the document.

70. Morgan, Mary, ed. Safe Water and Waste Disposal for Rural Health: A Program Guide. Water for the World Series. Prepared for AID. National Demonstration Water Project, 1725 DeSales St. N.W., Washington, D.C. 20036, 1982. (Available at WASH).

This book, the overall guide for the "Water for the World" series, is focused on improving community water and health standards by providing technical assistance to program planners. Part I discusses health problems related to the water supply and waste disposal systems in developing nations. Various diseases, methods of contamination, and application of water quality standards are covered in the first section. Subsequent chapters are devoted to technological solutions, training approaches, and the role of community participation in developing and maintaining systems. The editors drew on extensive resources in preparation of this comprehensive manual. Additional references are provided at the end of each chapter.

75. Obeng, Letitia E. Women and Water-Related Disease. Paper presented at the International Symposium on Women and Their Health, Washington, D.C., June 8-11, 1980. Equity Policy Center, Washington, D.C.

This short UNEP pamphlet succinctly outlines the wide variety of diseases transmitted by water or fecal contact. In addition, it stringently points out the close relationship women have to a community's health standards due to their constant and traditional contact with the water supply. Obeng touches on several areas of UNEP's commitment to improving the global problem.

* * *

Additional Documents

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4. Agarwal, Anil. Introducing New Technologies: Try Asking the Women First, vols. 1 and 2. Information Service on Science and Society-Related Issues Report no. 53. Centre for Science and Environment, 807 Vishal Bhawan, 95 Nehru Place, New Delhi 110019, India, 1982.
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16. Carr, Marilyn. Women and Technology in Rurally Oriented Projects. Notes on Women in Development, no. 13 (sectoral overviews). Office of the Advisor on Women in Development, World Bank, Washington, D.C., 1981.

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26. Elliott, Veronica, and Sorsby, Victoria. An Investigation into Evaluations of Projects Designed to Benefit Women: Final Report. AID, Washington, D.C., 1979.
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SUBJECT INDEX

e. SOCIOCULTURAL ASPECTS

Key Documents

15. Buckles, Patricia, and Elmendorf, Mary. "Sociocultural Aspects of Water Supply and Excreta Disposal." Appropriate Technology for Water Supply and Sanitation. Transportation, Water and Telecommunications Dept., World Bank, Washington, D.C., 1980.

Social and cultural factors influencing people's responses to water supply and excreta disposal technologies are investigated in seven case studies in Latin American communities. The authors are primarily concerned with the implications of their findings and suggestions for integrating social and cultural elements into project designs which will be accepted, properly applied, and continuously used. They offer social science techniques which planners can use to encourage active involvement by communities in all phases of a water supply and waste disposal program. Buckles and Elmendorf give special consideration to women's relationships to the planning and implementation stages.

44. Green, Edward. A Knowledge, Attitudes, and Practices Survey of Water and Sanitation in Swaziland. Academy for Educational Development, Inc., Washington, D.C., 1982.

Green has prepared materials from a thorough empirical study by the Rural Water-Borne Disease Control Project which relates Swazi social and cultural elements to water and sanitation practices. The study's three-fold purpose was to 1) provide baseline data for the design of a national health education strategy for reducing incidents of water-borne diseases, 2) provide guidance for the project's health engineers, and 3) contribute data for future evaluations or research. This document reports the methodology, results, analysis, and recommendations of the study in depth and may serve as a guide for continuing studies in the water and sanitation field.

60. Jorgensen, Kirsten. Some Social and Cultural Aspects of Rural Water Supply. Paper presented at the World Bank/UNDP Handpumps Project Advisory Panel Meeting in Braintree, England, October 11-12, 1981. World Bank, Washington, D.C.

This paper studies social and cultural aspects of the supply and use of water for domestic consumption with the purpose of creating an awareness among water project planners that these factors play critical roles in a project's success. Jorgensen deals with traditional and current cultural attitudes towards water, the participation problem, the implications of technology on the social and cultural organization of rural populations, and some benefits and disadvantages of improved water supplies. She draws on her observations in Africa in making her remarks.

72. Newland, Kathleen. Women, Men and the Division of Labor. Worldwatch Paper 37. Worldwatch Institute, 1776 Massachusetts Ave. N.W., Washington, D.C. 20036, 1980.

This booklet gives a broad socio-cultural overview of the allocation of tasks, domestic and otherwise, among men and women in both developed and developing nations. In relation to water carrying, Newland illustrates that this chore falls primarily to women with examples from several countries. She discusses the effect this has on women's energy for other activities such as income generation and family care.

92. Srijayaramachandra, K. "Social and Cultural Aspects of the Water Sector." Annex VII to A National Plan for Safe Drinking Water, vol. 2, July, 1979, pp. 98-103. University of Moratuwa, Dept. of Town and Country Planning, Moratuwa, Sri Lanka. (Available at WASH).

Annex VII to A National Plan for Safe Drinking Water is a discussion of possible social and cultural constraints which could reduce the effectiveness of a water supply and health improvement program in Sri Lanka. The author considers the history of his country's beliefs about water, and he describes the women's relationship to water usage in Sri Lanka with emphasis on educating them about safe practices. This short section may provide planners with an example of sociocultural concerns which are specific to one Asian country.

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Additional Documents

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