

PN-AAP-635

ISN 34064

Directory of Organisations Involved in Community Education and Participation in Water Supply and Sanitation



NOVEMBER 1983

PN AAP 635

DIRECTORY OF ORGANISATIONS
INVOLVED IN COMMUNITY EDUCATION AND PARTICIPATION
IN WATER SUPPLY AND SANITATION

November 1983

2012-981
IRC
International Reference Centre
for Community Water Supply and Sanitation
WHO Collaborating Centre
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The Netherlands

003256
WASH
Water and Sanitation
for Health Project
Coordination and Information Center
1611 N. Kent Street, Room 1002
Arlington, Virginia 22209
United States of America

ABSTRACT:

IRC
INTERNATIONAL REFERENCE CENTRE
FOR COMMUNITY WATER SUPPLY AND SANITATION

WASH
WATER AND SANITATION FOR HEALTH PROJECT

**Directory of Organisations involved in Community Education and Participation
in Water Supply and Sanitation**

This publication presents data on 124 organisations from 56 countries and 10 international organisations regarding their work on community education and participation in the field of water supply and sanitation in developing countries. These data have been collected through a mail survey organised by IRC and WASH as a joint effort.

165 pages.

Keyword entries:

Community Development
Education
Participation
Water Supply
Sanitation
Hygiene

Social aspects
Organisations
Services
Information
Materials
Workshops

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Source: GRAAP - Groupe de Recherche et d'Appui pour
l'Autopromotion Paysanne, Bobo-Dioulasso,
Upper Volta

PREFACE

In the last few years community education and participation have become recognized as important elements of drinking water supply and sanitation projects. In relation to this there is an increasing demand for information on organisations that can support the development or improvement of community education and participation programmes, through social research, evaluation, advice, training and the production of educational materials.

This Directory provides such information. It has been prepared to promote and facilitate the exchange of information and experience on social and educational aspects of water supply and sanitation projects, and to help identify organisations capable of providing services in this field. The Directory comprises data on 124 organisations in 56 countries (see Annex I), and on 10 international agencies.

The identification of organisations involved in community education and participation was initially based on information already available to IRC and WASH. Subsequently, international organisations, donor agencies and individuals were requested to suggest other organisations to be included in the Directory.

All identified organisations were sent a preliminary questionnaire to get a first impression of their activities and services. Responding organisations were then sent a detailed questionnaire so as to collect the information which forms the basis of the Directory entries.

In general, the quality of the responses was reasonable. However, some responses were incomplete or vague. Many organisations have been too modest in mentioning "publications", in particular regarding "grey literature". Educational materials and audio-visual aids were often not reported at all.

The total response was 48%. Thus, many organisations are still missing in this Directory. We had the choice between continuing the survey and improving the information or publishing what was available. Our feeling was that potential users might prefer to make use of what was available so far.

We hope that this Directory will stimulate direct contacts and exchange of information and experience amongst organisations in and concerned with developing countries and, at the same time, will help the identification of other organisations relevant for possible future editions.

In relation to this, the reader is kindly requested to send relevant material, in particular regarding education and training materials, new entries and improvements of existing entries to IRC. In case of a good response the publishing of a revised edition will be seriously considered.

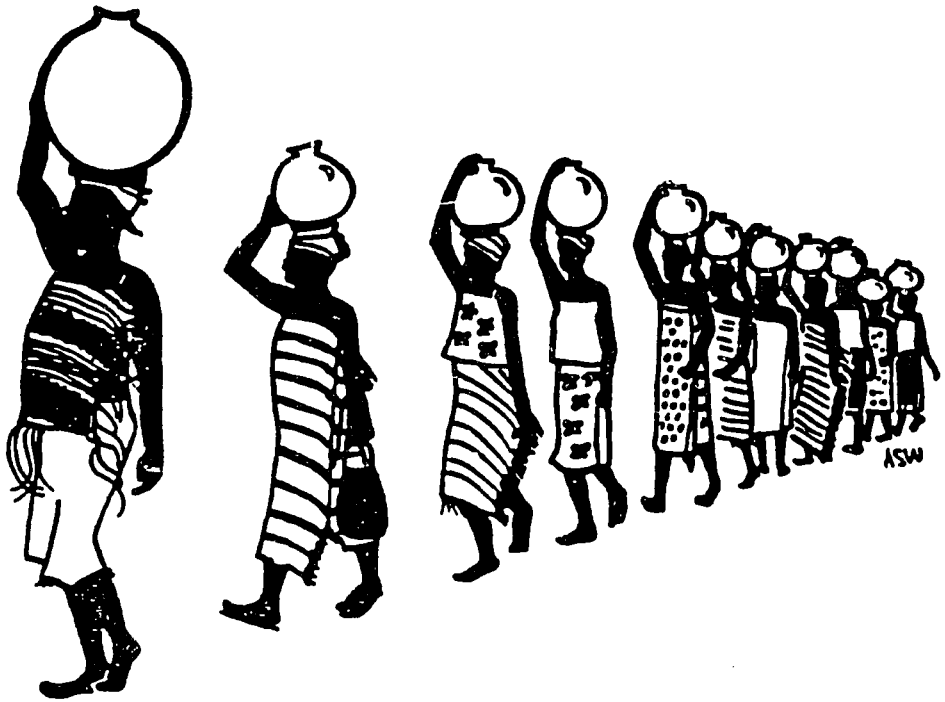
ACKNOWLEDGEMENTS

This Directory is the result of a joint effort of IRC, the International Reference Centre for Community Water Supply and Sanitation and WASH, the Water and Sanitation for Health Project.

Many persons contributed to the compilation of this publication. We are particularly grateful to all organisations that provided information and cooperated in the preparations. A special word of thanks is addressed to Christine van Wijk for the preparation of the questionnaires and the identification and selection of entries; to Ellen Kendall of the Research Triangle Institute for her contribution to the design of the questionnaires and the organisation of the mail survey; and to Marieke Boot (IRC) for preparing the entries and the finalization of the Directory which she did in an admirable manner. Last but not least, Hilda de Vries and Chantal Stenfert at IRC and Ann Walls at RTI are gratefully acknowledged for their assistance in the implementation of the mail survey and the processing of this publication.

September 1983

Enric L.P. Hessing (IRC)
Raymond B. Isely (WASH)



INTERNATIONAL AGENCIES

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ORGANIZATION: Asian Development Bank

ADDRESS: 2330 Roxas Boulevard Telephone: 8317211,
8317251 Metro Manila Telex: RCA 23103 ADB PH
P.O. Box 789 ITT 40571 ADB PH
Manila ETP 63587 ADB PH
Philippines Cable address: ASIANBANK
MANILA

CONTACT PERSONS: David A. Howarth, Manager Water Supply Division
Javier M. Gomez, Officer-in-Charge, Water Supply
Division

TYPE OF ORGANIZATION: International Development Finance Institution

SCOPE OF ORGANIZATION: International: Asia

WORKING LANGUAGES: English

ACTIVITIES: The organization is involved in providing water supply
and sanitation systems in rural and urban areas by
means of cash loans and technical assistance. The main
sources of water are springs, drilled wells,
sedimentation and disinfection of water from
river/stream and rainwater catchment. Distribution is
by gravity and pumping. The type of sanitation
technology includes night soil treatment.
Training courses are provided for technicians and
sanitarians and for managers and administrators.

PUBLICATIONS: - Annual Report, Operational Information on Proposed
Projects. \$28 for one year subscription by air mail.

SERVICES: Programme planning, institution building, training,
organization of workshops and demonstration visits,
construction, maintenance, repair, and financing.

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ORGANIZATION: Centro Panamericano de Ingeniería Sanitaria y Ciencias del Ambiente (Pan American Centre for Sanitary Engineering and Environmental Sciences) CEPIS

ADDRESS: Los Pinos 259 Telephone: 354135
 Urbanización Camacho Telex: 21052
 Casilla Postal 4337 Cable address: CEPIS, LIMA
 Lima 100
 Peru

CONTACT PERSON: Mr. Rodolfo Sáenz Forero, Coordinator Human Resources and Institutional Development

TYPE OF ORGANIZATION: United Nations, Specialized Centre of the Pan American Health Organisation (Regional Office of the World Health Organisation)

SCOPE OF ORGANIZATION: International: Latin America and Caribbean

WORKING LANGUAGES: Spanish, Portuguese, English

ACTIVITIES: Study on community response and participation in relation with rural water supply programmes in the department of Ica, Peru (in progress).
 Projects with community participation in construction, operation and maintenance and administration are monitored on costs and cost-savings of participation, functioning of facilities, payment, patterns of use, user satisfaction and environmental health knowledge. Training of water supply and sanitation supervisors (90) on water supply and waste water system management. These then train community water system operators.

PUBLICATIONS: - Manual del Curso para Supervisores de Operación y Mantenimiento en Sistemas de Abastecimiento de Agua Potable y Alcantarillado, Noviembre de 1979 (Manual Supervisores) (EVA \$ 12.50)

SERVICES: Technical assistance and consultancies by project staff on training of trainers on water supply and waste water system management, and development of training material.

ORGANIZATION: Food and Agriculture Organization of
the United Nations

ADDRESS: Via delle Terme di Caracalla Telephone: 5797
00100 Rome Telex: 610181 FAO I
Italy Cable address: FOODAGRI
ROME

CONTACT PERSON: Mr. T.H. Mather, Senior Officer, Water Resources,
Development and Management Service, Land and
Water Development Division

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, French, Spanish, Arabic

ACTIVITIES/SERVICES: The objective of FAO in relation to the International
Drinking Water Supply and Sanitation Decade is to
create a linkage of activities for agricultural
production with those for improved rural environmental
health. FAO policy towards the promotion of rural
water supply, sanitation and other facilities and
services to improve the quality of life among rural
people is, in general, to formulate such services as
components of overall rural development. In this way,
individual and public income will be generated to
meet recurrent costs, and the development infrastructure
can be utilized to ensure operation and maintenance
for sustained benefit.
In recognition of the need to concentrate action at
the country level, special attention has been given
to the creation and strengthening of FAO country
offices. It is mainly through these offices, and
through FAO representation in the member states,
that the Organization will contribute to activities
of the Decade which can be promoted in an agricultural
and rural context.

ORGANIZATION: International Labour Office

ADDRESS: 4, route des Morillons Telephone: (022) 996111
 CH-1211 Geneva 20 Cable address: 22271 BIT CH
 Switzerland

CONTACT PERSON: John Wallace
 Focal Point for Water Questions

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, French, Spanish, Arabic

ACTIVITIES: The organization is involved in development through basic needs, income distribution through employment, employment creation, and human resource development. ILO undertakes technical cooperation and research activities, many of which concentrate on increasing the participation of people in their own development. The Special Public Works Programme of the ILO assists governments to procure funds and provides technical assistance to implement development projects which employ labour-intensive technologies. Such projects often include irrigation, water supply, sanitation, flood control and soil/water conservation works. For example, in Upper Volta, the ILO is assisting in a public works programme to construct wells and pipelines. In Benin, the ILO's public works programme includes the construction of wells, cisterns and piping. In Ethiopia, the ILO has assisted in training people who construct wells and install, maintain and repair pumps. In Bangladesh, the ILO has been active for years in building up a capacity to train mechanics in the maintenance and repair of low-lift pumps. The ILO Training Department undertakes to train managers, supervisors, and technicians. For example, the ILO's Modular Programme for Supervisory Development. The ILO International Centre for Advanced Technical and Professional Training in Turin, Italy offers a variety of training programmes in water management, rural development and management of cooperatives. The ILO also carries out organizational development and training projects directly in water supply agencies, such as in Zaïre. ILO is designing and testing a variety of materials aimed at educating the users of new water and sanitation systems.

PUBLICATIONS:

- Technical Instructions for Planning, Organization and Execution of Special Public Works Programmes:
 - No. V Health and Technical Data for Water Supply Projects, October 81
 - No. VI Recapitulation of health hazards due to water pollution and to water-related diseases, 1982
- Theory and Practice of Participatory Action Research (this is the most recent in a series of over thirty ILO papers on participation).

ORGANIZATION: IRC
International Reference Centre
for Community Water Supply and Sanitation

ADDRESS: J.C. van Markenlaan 5 Telephone: 70949322
P.O. Box 5500 Telex: 33296 IRC NL
2280 HM Rijswijk Cable address: WORLDWATER
The Netherlands THE HAGUE

CONTACT PERSON: Programme Officer

TYPE OF ORGANIZATION: WHO Collaborating Centre

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English (French, Dutch, Spanish)

ACTIVITIES: IRC is an information centre focussing on the technical, organizational, economic and social-cultural aspects of community water supply and sanitation in developing countries.
IRC inventorises, analyses and describes community participation and education activities in rural and urban fringe areas. The purpose of these activities is to identify models for community involvement, to stimulate information exchange in this field and to promote greater cooperation between technical and socio-educational agencies in water and sanitation. IRC cooperates with national and international agencies to develop and/or evaluate community participation and health education activities. This is done through demonstration projects, information support and advisory consultancies.

PUBLICATIONS: The following titles are illustrative of IRC publications in the community education and participation area:
- Van Wijk-Sybesma, C., Participation and Education in Community Water Supply and Sanitation Programmes: A Literature Review, 230 pp., Technical Paper no. 12
- Van Wijk-Sybesma, C., Participation and Education in Community Water Supply and Sanitation Programmes: a Selected and Annotated Bibliography, 238 pp., Bulletin no. 13
- White, Alastair, Community Participation in Water and Sanitation: Concepts, Strategies and Methods, 180 pp. Technical Paper no. 17
- Whyte, Anne, (ed.) The Colombian Field Manuals and Training Guides for the Promotion of Community Participation in Water and Sanitation Schemes: a translated and edited version in English of the materials prepared by the National Institute of Health, Ministry of Public Health, Colombia, 125 pp.
A list of all IRC publications is available on request.

SERVICES: Development and evaluation of participation and education programmes, development of educational and training materials, organization of workshops and seminars, information services, advisory consultancy services.

ORGANIZATION: United Nations Children's Fund (UNICEF)

ADDRESS: 866 UN Plaza Telephone: 212754-3269
 New York, NY 10017 Cable address: UNICEF
 United States of America NEW YORK

CONTACT PERSONS: Muriel Glasgow, Programme Officer Health Education
 Na Yangsheng, Senior Consultant, Community Participation

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, French, Spanish, Arabic

ACTIVITIES: The organization participates in programmes and projects that are executed by national governments and state agencies. One of the major fields of UNICEF cooperation is water supply and environmental sanitation in rural and urban areas. In 1982, an estimated 77,000 water systems, benefiting more than 13 million people in 93 countries, were completed with UNICEF assistance. The predominant part of these systems are simple, low-cost installations (hand-dug or drilled wells and handpumps). An estimated 127,000 excreta disposal systems were constructed with UNICEF cooperation in 1982, benefiting about 1 million people.

During the past few years intensified attention is being given to:

- women's involvement in the different phases of the programme and project developments.
- health education. National workshops to seek ways of increasing health education components in the programmes are held in several countries. Simple means of promoting personal hygiene are being increasingly stressed in education messages on local level. Health education materials, booklets, flip charts, slides, etc. have been designed and distributed.
- human resources development. The organization supports the development of organization, management and skills at provincial, district and village levels. Many training programmes are supported for village pump caretakers, health promoters, water-well diggers and water-well drillers.

Community participation is the key element in the UNICEF approach. An essential feature of the approach is the selection by the community of one or more of its members to serve as community workers after brief practical training, repeated and extended through refresher courses.

PUBLICATIONS:

- Assignment Children, a journal concerned with children, women and youth in development (especially vol. 45, 59/60, 61/62). The journal appears in French under the title: Les Carnets de l'Enfance, available from UNICEF, Villa Le Bocage, Palais des Nations, 1211 Genève 10, Switzerland.
- Many publications and health education materials available on request from UNICEF country offices.

SERVICES:

Funding of and technical assistance in: programme development, programme implementation, training, institution building, development and production of educational materials and technical cooperation between developing countries. Information services, organization of workshops and seminars.

ORGANIZATION: UNICEF, East Asia and Pakistan Regional Office

ADDRESS: 19, Phra Atit Road Cable address: UNICEF
P.O. Box 2-154
Bangkok
Thailand

CONTACT PERSON: Ms. Jane Bunnay, Regional PSC Officer

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: Regional

WORKING LANGUAGE: English

ACTIVITIES: The organization is involved in district level planning including water supply and sanitation projects in Thailand.
A study was made by technical health and training experts from UNICEF and the Ministry of Public Health of Thailand evaluating problems in handpump maintenance and use. For better results more community participation and education were decided upon. For this purpose, 4 pilot workshops were organized for 125 government officials at district and subdistrict level on community participation and education in rural well construction and handpump installation projects of the Ministry of Health. After a survey on existing health, water and geological conditions, water use patterns and attitudes, the villagers are to be involved in decisions on siting, contribution to construction and selection of handpump caretakers for training. Training for community education aims at the choice of appropriate education methods. A preliminary training manual has been published. Pilot projects are under execution. An evaluation of the training is planned.

PUBLICATIONS:

- N.M. Pestelos, Rural Water Supply and Sanitation in the Context of People-Based Development, Paper presented at the Unicef Regional Workshop on People, Water Supply Sanitation, January 12-20, at Ubol Ratchathanee, Thailand, 30pp.
- Department of Health/UNICEF, A Communication Strategy for a Rural Water Supply Project in Thailand, Guidelines for Participating Workshops for Local Government Officials. Bangkok, April 1979, 41 pp.
- Pateep Siribodhi, Water Supply and Primary Health Care in Thailand, World Health Forum, 2,1,1981, pp.72-74.
- UNICEF-EAPRO, Towards a Programme's Guide: The Report of the Regional Water and Sanitation Workshop, Ubol Ratchathanee, Thailand, 12-20 January 1981.

SERVICES: Technical assistance in social research, programme development, implementation, training, development of training material, and technical cooperation between developing countries.

ORGANIZATION: World Bank

ADDRESS: Headquarters: Telephone: (202) 477-1234
 1818 H. Street, N.W. Telex: WUI 64145 WORLDBANK
 Washington, DC 20433 RCA 248423 WORLDBK
 United States of America Cable address: INTBAFRAD
 WASHINGTONDC

CONTACT PERSON: Richard N. Middleton

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English

ACTIVITIES/SERVICES: World Bank activities in support of the International Drinking Water Supply and Sanitation Decade have as their objective an increase in the flow of funds into the sector in the less developed countries. Bank actions are therefore specifically oriented towards:

- the development and implementation of sound projects for its own lending programme;
- assistance to governments in the establishment of sector policies which (a) eliminate obstacles to the generation of projects and (b) promote an increase in sector investments.

The Bank is undertaking various activities to increase the effectiveness of its lending programme, such as the promotion of appropriate technology and the dissemination of information.

Presently, the World Bank is publishing a series of informal technical papers prepared by TAG (Technology Advisory Group) as a joint contribution with the United Nations Development Programme to the International Drinking Water Supply and Sanitation Decade.

PUBLICATIONS:

- Methods for gathering social cultural data for water supply and sanitation projects, Mayling-Simpson-Hébert, 1983
- Planning of communication support (information, motivation and education) in sanitation projects and programs, Heli Perrett, 1983
- The ventilated improved double-pit latrine: a construction manual for Botswana, John van Nostrand and James G. Wilson, 1983
- Pit latrine ventilation: field investigation methodology, Beverley A. Ryan and D. Duncan Mara, 1983
- Social feasibility analysis in low-cost sanitation projects, Heli Perrett, 1983

ORGANIZATION: World Health Organization,
Division of Environmental Health

ADDRESS: 1211 Geneva 27 Telephone: 913512
Switzerland Telex: 27821 OMS
Cable address: UNISANTE

CONTACT PERSON: Dr. R.C. Ballance, Engineer

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, French, Spanish

ACTIVITIES/SERVICES: The role of the WHO headquarters is to stimulate and support country and regional activities by the preparation of guidance documents, the dissemination of information, the convening of meetings, workshops and seminars. The main activities include:

- collection, analysis, synthesis and dissemination of information concerning surveillance of drinking water quality, sanitation, health aspects, community involvement and hygiene education in community water supply programmes
- collaboration with other WHO programmes, e.g. Special Programme for Research and Training in Tropical Diseases, Diarrhoeal Diseases Control, Public Information and Education for Health.
- collaboration with WHO Regional Offices, external support agencies and governments in the development of approaches and programmes for the promotion of community involvement, hygiene education, drinking water quality and health impact in community water supply projects.

Activities at country level are carried out through the Regional Offices.

The Regional Offices also organise courses and produce guideline materials on a Regional basis. The Regional Offices collaborate with the other WHO programmes, such as diarrhoeal control.

Regional Offices:

- Organisation Mondiale de la Santé
Bureau Régional de l'Afrique
Boîte Postale 6
Brazzaville
Congo
Telephone: 613860 - 65
Telex: 5217, 5218 UNISANTE BRAZZAVILLE
- World Health Organization
Regional Office for the Americas
Pan American Sanitary Bureau
525, 23rd Street, NW
Washington, DC 20037
United States of America (See CEPIS, page 12)

- World Health Organization
Regional Office for the Eastern Mediterranean
P.O. Box 1517
Alexandria
Egypt
Telephone: 802318, 807843
Telex: 54028 UNISANTE ALEXANDRIA

- World Health Organization
Regional Office for Europe
8, Scherfigsvej
DK-2100 Copenhagen
Denmark
Telephone: (01) 290 111
Telex: 15348 who dk UNISANTE COPENHAGEN
Contact person: G. Watters, B.Sc., Ph.D.

- World Health Organization
Regional Office for South-East Asia
World Health House
Indraprastha Estate
Mahatma Gandhi Road
New Delhi - 110002
India
Telephone: 270181 - 88
Telex: 312241, 312195 WHO NEW DELHI

- World Health Organization
Regional Office for the Western Pacific
P.O. Box 2932
12115 Manila
Philippines
Telephone: 592041
Telex: 27652, 63620, 40365 UNISANTE MANILA

PUBLICATIONS:

- Whyte, Dr. Anne, Guide for the design of a national support programme for community education and participation in water and sanitation

ORGANIZATION: World Health Organization,
UNDP/WORLD BANK/WHO Special
Programme for Research and Training in Tropical
Diseases.

ADDRESS: 1211 Geneva 27 Telephone: 912539
Switzerland Telex: 27821 OMS
Cable address: UNISANTE

CONTACT PERSON: Patricia Rosenfield, Secretary, Scientific Working
Group and Steering Committee on Social and Economic
Research in the Special Programme for Research and
Training in Tropical Diseases.

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English and French

ACTIVITIES/SERVICES: The programme includes social and economic studies
related to the promotion and acceptance of control
programmes for malaria, schistosomiasis, filariasis,
trypanosomiasis, leishmaniasis and leprosy. It also
includes evaluations of the results of health education
programmes with and without community involvement and of
water and sanitation projects with and without
community participation and/or education. Topics
investigated include health knowledge and attitudes,
patterns of health behaviour and cost-effectiveness
of the various measures.

PUBLICATIONS:

- UNDP/World Bank/WHO Special Programme for Research
and Training in Tropical Diseases, Report of the
First Meeting of the Scientific Working Group
on Social and Economic Research, Geneva, 26-30
November 1979, 17 p.
- UNDP/World Bank/WHO, Special Programme for
Research in Tropical diseases, Workshop on
the Role of Human/Water Contact in Schistoso-
miasis Transmission, St. Lucia, 28 May- June 1979,
51 p.
- UNDP/World Bank/WHO, Special Programme for Re-
search and Training in Tropical Diseases, "Social
and Economic Research", Chapter 12 in Fourth
Annual Report, TDR/AR(4)/80.12, pp. 273-287.

ORGANIZATIONS BY COUNTRY

ORGANIZATION: Secretaría de Estado de Transporte y Obras Públicas,
Servicio Nacional de Agua Potable y Saneamiento Rural

ADDRESS: Libertad 836, 1er piso
1012 Capital Federal
Buenos Aires
Argentina

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: Spanish

ACTIVITIES: Mobile field workers of the promotion sections at provincial level motivate and involve rural populations in planning, implementation and operation of piped drinking water supply systems. A standardized procedure is followed, with some flexibility for the type of village level administration. Promoters get a special course in health education. An evaluation in a representative sample of 15 communities in 1970 focussed on degree of community participation, user satisfaction about service and administration, programme and health knowledge, health behaviour and tariff payment.

PUBLICATIONS:

- Republic of Argentina, Plan Nacional de Agua Potable, Secretario de Recursos Hídricos, Servicio Nacional de Agua Potable, Buenos Aires, 68 pp. (n.d.).
- Republic of Argentina, Manual del Promotor, Ministerio de Obras y Servicios Públicos, Servicio Nacional de Agua Potable, Buenos Aires, 145 pp. (n.d.).
- Republic of Argentina, Elementos de Educación Sanitaria, Ministerio de Obras y Servicios Públicos, Servicio Nacional de Agua Potable, Buenos Aires, 131 pp. (n.d.).
- Republic of Argentina, Guía para Organización y Administración de Cooperativas y de Sistemas de Abastecimiento de Agua, Subsecretaría de Recursos Hídricos, Servicio Nacional de Agua Potable y Saneamiento Rural de Argentina, Buenos Aires (1972).
- Republic of Argentina, Evaluación de la primera etapa del Plan Nacional de Agua Potable Rural, Ministerio de Obras y Servicios Públicos, Subsecretaría de Recursos Hídricos, Servicio Nacional de Agua Potable y Saneamiento Rural de Argentina, 66 p., Buenos Aires (Enero 1972).
- Republic of Argentina, Propuesta educativa para un programa de eliminación de excreta, Ministerio de Obras y Servicios Públicos, Servicio Nacional de Agua Potable, Buenos Aires, 70 pp. (1982)
- Republic of Argentina, El agua como factor de vida, Ministerio de Obras y Servicios Públicos, Servicio Nacional de Agua Potable, Buenos Aires, 86 pp. (1981)

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ORGANIZATION: Concern Bangladesh

ADDRESS: P.O. Box 650 Telephone: 317237
 Dhaka-5 Cable address: CONCERN
 Bangladesh Dhaka

CONTACT PERSONS: Desmond O'Brien, Engineering Section
 Elizabeth Coyne, Health Section

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: Provision of water supply and sanitation facilities in rural and urban areas. The type of water supply technology is the drilled well (tubewell) with handpumps. The types of sanitation technology include: private and communal ventilated pit latrines and aqua privies, and waste water drainage, where possible sub-surface. Up till now roughly 50,000 people in 10 communities have been served. The project is linked to a Primary Health Care Programme. Primary Health Workers are trained for 3 months of which one week is devoted to sanitation. Local health education programmes, including a school health education programme, are developed. For this purpose a flip-chart has been produced. Evaluation studies are carried out to assess the functioning and use of the facilities, hygiene behaviour and health impact.

PUBLICATIONS: Work reports available on request.

ORGANIZATION: Health Education and Economic Development Project (HEED)

ADDRESS: P.O. Box 5052 Telephone: 505347, 509337
 Dhaka - 5 Cable address: HEED,
 Bangladesh House 8, Road 6,
 Dhanmondi, Dhaka

CONTACT PERSON: Dr. Stephen Brown, Community Health Coordinator

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: Bengali, English

ACTIVITIES: HEED helps to supply water and sanitation systems in the Sylhet and Khula Districts. The strategy in Sylhet has been to mobilize village groups to obtain tubewells and slab latrines from the Bangladesh Government through the Department of Public Health Engineering. HEED provides the necessary community education and organization, mobilizes the community members to contribute the required labour and money, and provides the linkage to government services. In the project area in the Khulna District the ground water is often too saline to allow tubewells to be used so a strategy of using protected ponds for rainwater catchment has been devised. The extension of this technology is still in its early stages. The water and sanitation projects are carried out within the context of a comprehensive development programme which also involves other health services, agricultural assistance and community education. HEED has trained promoters, community health workers and personnel for system operation and maintenance to work in areas related to water supply and sanitation. Training materials for community health promoters have been developed as well as general health education materials for the communities.

SERVICES: Programme planning, training, education (within Bangladesh)

ORGANIZATION: UNICEF Country Office

ADDRESS: P.O. Box 58 Telephone: 500180-500185
 Dhaka 5 Telex: 642471-780
 Bangladesh Cable address: UNICEF

CONTACT PERSON: Chief, Water and Environmental Sanitation Section

TYPE OF ORGANIZATION: United Nations

SCOPE OF ORGANIZATION: Bangladesh

-WORKING LANGUAGES: English, Bengali

ACTIVITIES/SERVICES: One of the activities of the organization centres around the provision of water supply and sanitation facilities. The types of water supply technology include: spring protection, hand-dug wells, hand-drilled wells, handpumps and gravity supply. The types of sanitation technology include: latrines (water-seal, chute, VIP, Vietnamese) and waste water drainage (drain from platform). Different financing arrangements are made for various facilities: UNICEF and/or government and/or community/private beneficiaries. Ten different levels of staff are trained. Some are trained as trainers; others to carry the message. Most of the training is on the job or during very short workshops and seminars, directly related to the work. Up till now about 180,000 caretakers and 600 engineers have been trained. Much attention is given to the health education component. Health information is given in school health education programmes, caretakers training courses, radio programmes and newspapers. Health education material has been produced and distributed e.g.: posters, pamphlets and films in Bengali for villagers, school children, caretakers and Government staff. The participation of women is strongly promoted, e.g.: provision of pump facilities through women's groups; women are encouraged to come forward as caretakers; at times caretaker training courses are organized for women only; health education and evaluation studies are focused on women. On behalf of UNICEF, several organizations undertake socio-cultural studies and evaluations.

PUBLICATIONS:

- Farooque Ahmed, Design parameters for rural water supplies in Bangladesh, Dacca, April 1981
- Mendis, Skoda and China "A Survey in Rural Bangladesh on Diarrhoeal Morbidity, Water Usage and Related Factors", 1977; Ibid, 1979
- Rahman, M.M., Aziz, K.M.S., Patwary, Yakub and Munshi M.H. "Diarrhoeal Mortality in two Bangladeshi Villages With and Without Community-Based Oral Rehydration Therapy"
- Rahman, Mujibur M., and Aziz, K.M.S. "Final Report of Shigella Project (Bangladesh)", April 1979

- Feachem, Richard "Oral Rehydration with Dirty Water?", Diarrhoea Dialogue, 4 february 1981
- D'Souza Stan. "Small-Area Intensive Studies for Understanding Mortality and Morbidity Processes", 20-23 October 1981, Bangkok

ORGANIZATION: Association Internationale de Développement Rural (AIDR)

ADDRESS: Rue du Commerce, 20 Telephone: 5128768,
BTE 9 5128719, 5128792
B-1040 Brussels Telex: 62928 AIDR-B
Belgium Cable address:
INTERDEVELOPRU

CONTACT PERSONS: Mr. Noel Platteuw, Director
Mr. W. de Selys Longchamps, Head Public Relations
Department

TYPE OF ORGANIZATION: NGO, Association

SCOPE OF ORGANIZATION: International (Africa)

WORKING LANGUAGES: French, English, Dutch

ACTIVITIES: As a consulting firm AIDR is concerned with the identification, planning, preparation and evaluation of rural development projects. As a contractor, it implements projects and programmes. One of its fields of activities is the provision of water supply and sanitation systems. The main sources of water are springs, hand-dug wells, drilled wells, disinfection and sedimentation of water from rivers, and protection of water from ponds/tanks. Lifting technology includes handpumps, bucket and pulley and powered pumps. Distribution is by gravity and pumping. Sanitation improvements include septic tank latrines, composting latrines, solid waste refuse, and vector control. Community appraisals are conducted as part of the planning process for sound integration of the projects in the local context. Community participation of men and women is promoted in all phases of the project through public meetings, the involvement of local committees and community contributions in labour and materials. The operating costs of the systems are financed by user fees, government funds and funds from outside organizations. Education and organization of the local population is generally carried out at the request of and in cooperation with the local authorities and with specialized agencies. Such action is mainly concerned with the following items:

- education in the field of water hygiene;
- basic training in standard maintenance and minor repair work;
- training of local craftsmen to build public water outlets;
- organization of the local population to enable them to take over some maintenance work.

PUBLICATIONS:

- De Bachère, M., Adduction Icyianya, Fonctionnement station de traitement et prise au lac, 1981 (French, free of charge)
- Benakour, A., Jean, S., La Haye, J.P., Van Espen, Ph., Evaluation de projets d'hydraulique humaine en Haute Volta, AIDR/CIEH, 1977 (French)

- Van Espen, Ph., Réflexion sur la préparation et l'évaluation des projets d'hydraulique humaine,
March 1978 (French)

SERVICES:

Social studies, programme planning, institution building, training, organization of workshops, construction, maintenance and repair.

ORGANIZATION: Coopibo (IBO Development Cooperation)

ADDRESS: Naamsesteenweg 573 Telephone: 016-227979
3030 Heverlee
Belgium

CONTACT PERSONS: Ludo Wouters, Coordinator
Jan Aertsen

TYPE OF ORGANIZATION: NGO, Membership, Voluntary

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: Dutch, French, English, Spanish

ACTIVITIES: Coopibo is, as an international movement of volunteers, especially active in the implementation of concrete projects in rural and urban areas in developing countries.
In some projects (e.g. Ruanda and Zaïre) provision is made of water supply and sanitation facilities as a part of an integrated development programme. The types of water supply technology include: gravity supply, pumped supply, public standposts and chlorination of water. The types of sanitation technology include: common pit latrines. In Ruanda 23,000 people have been served and in Zaïre 12,000. Community participation of men and women is sought in all phases of the project.
Water is paid for by flat user fees to cover the maintenance of the equipment and to pay the operator. Local operators and community extension workers are trained on the job for 8 weeks.

PUBLICATIONS:

- Reports of activities, annual reports, five-year plans
- Rik Denys, Eau potable, 18 p., 1976, information on animation of rural people

SERVICES: Professional advisory services on project/programme development and implementation.

ORGANIZATION: Asociación de Vivienda Popular VIPO

ADDRESS: Casilla 1420 Telephone: 24550
Cochabamba
Bolivia

CONTACT PERSON: Arq. Juan Manuel Mendoza

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: Sub-national: Department of La Paz, Los Andes Province; Department of Cochabamba, Arani Province; Carrasco Province; Chapare Province.

WORKING LANGUAGES: Spanish, Quechua, Aymara

ACTIVITIES: Stimulation of self-improvements in community water supply and sanitation facilities in rural areas. The types of water supply technology include: piped gravity supply, standposts, group and house connections. The types of sanitation technology include: common pit latrines and composting latrines. Every year one or two new communities are being served. Preparatory studies are carried out to identify water supply needs. Promoters are trained occasionally to raise the consciousness of water needs. Community participation is sought in all phases of the project.

SERVICES: Technical assistance in project development and implementation, organization of workshops, information services.

ORGANIZATION: United States Agency for International Development
(USAID) Bolivia

ADDRESS: Embassy of the United States of America
La Paz
Bolivia

CONTACT PERSON: Dr. Lee R. Hougen

TYPE OF ORGANIZATION: Bilateral aid agency

SCOPE OF ORGANIZATION: Bolivia

WORKING LANGUAGES: English, Spanish

ACTIVITIES/SERVICES: USAID works with the Division of Environmental Sanitation of the Ministry of Health to provide water and instal latrines in rural areas. The communities collect and contribute 25% of the capital cost of the water systems. These include gravity and pumped supplies piped to group connections, in concentrated villages. The community is involved in the design and construction of the projects, and in their maintenance, with help from the Ministry of Health. Maintenance is, however, now the biggest problem. Evaluation studies undertaken include the evaluation of functioning, impact, and community participation.

ORGANIZATION: Botswana Extension College
University College of Botswana

ADDRESS: Private Bag 0043
Gaborone
Botswana

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: Planning and implementation of adult education mass campaigns, some of which include health education for self-improvements in water and sanitation. Health education consists of popular theater performances (drama, puppetry, etc.) with group discussion. Community leaders participate in the planning and implementation of the campaign. Printed material is developed for follow-up by local schools and extension services.

PUBLICATIONS: - Kidd, R., Byram, M., Laedze Batanani, Popular Theater and Development, a Botswana Case Study, Popular Theater Committee, University College of Botswana, Institute of Adult Education, Gaborone, January 1978, 12 pp. Also published in: *Convergence*, no. 10,2,1977.

ORGANIZATION: Christian Children's Fund, Inc.
Country Office: Brazil

ADDRESS: Caixa Postal 602 Telephone: (031) 201-4955
30000 Belo Horizonte Telex: 311880 BBDE
Minas Gerais Cable address: CHILDFUND,
Brazil BELO HORIZONTE, BRAZIL

CONTACT PERSON: Ely Domingues Gomes, Field Representative

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: Sub-national: Minas Gerais State

WORKING LANGUAGES: Portuguese

ACTIVITIES: The organization's work in water supply and sanitation forms part of a larger programme which includes: primary health care, agricultural development, nutrition and training. The assistance provided consists of cash grants, equipment and technical assistance. The main sources of water are drilled wells, disinfection and sedimentation of water from rivers and protection of water from ponds. Lifting technology includes handpumps and bucket and pulley. Distribution is by gravity. The types of sanitation technology include: latrines, housing improvements and vector control.

Community appraisals are conducted as part of the planning process. Community participation is promoted in all phases of the project through public meetings, the involvement of locally selected committees and community contributions in labour and materials. Local women are actively involved in the promoting of water and sanitation activities. The operating costs of the facilities are financed by collective community funds, government funds and special grants of the Christian Children's Fund.

Local people have been trained as community health workers to work in the water supply and sanitation projects.

SERVICES: Social studies, programme planning, education, organization of workshops and demonstration visits, construction and maintenance.

ORGANIZATION: Atelier de Matériel pour l'Animation (AMA)

ADDRESS: P.O. Box 267 Telephone: 22-32-08
Yaounde
Cameroon

CONTACT PERSON: Rev. Fr. Daniel Desmet, Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: International (Africa)

WORKING LANGUAGES: French (English, Spanish)

ACTIVITIES: The organization is involved in the design, production and distribution of educational materials for promoters, educators and community health workers. The materials include series of colour posters, series of slides and series of pictures for flannel-boards on various topics as health, nutrition, family planning, home economics, etc.. Special series have been designed on hygiene education in relation to water and sanitation. The educational materials are produced to facilitate community discussions and promote community action for self-improvements in water supply and environmental sanitation. The series are also suitable for use in school education programmes. Along with the series on the different topics, brochures have been produced to give to the people after discussion as an aid to memory.

PUBLICATIONS:

- Catalogue of audio-visual materials
- Hygiène de l'eau, (Clean Water) 27 slides/pictures with village worker guide and brochure, AMA/OCEAC.
- Verminoses (Intestinal Parasites), series of 53 slides/pictures with village worker guide and brochure, AMA/OCEAC.
- Hygiène du Corps (Personal Hygiene), series of 27 slides/pictures with village worker guide and brochure, AMA/OCEAC.
- Lardja Sanwogou, Education pour la Santé, USAID/OCEAC, Yaounde (1976).

SERVICES: Development of audio-visual training and education materials.

ORGANIZATION: ARA Consultants

ADDRESS: 151 Bloor Street West Telephone: (416) 961-1474
Toronto Telex: 06-986-766
Ontario
Canada M5S 1S4

CONTACT PERSON: Dr. Rodney R. White, Associate of ARA responsible
for impact assessment of water supply projects.

TYPE OF ORGANIZATION: NGO, Business Organization

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English and French

ACTIVITIES: Design of monitoring and evaluation system for a
rural shallow well project in Northern Ghana. Appointed
by the Canadian International Development Agency,
reporting to the Ghana Water and Sewerage Corporation.
Topics include functioning of facilities, degree of com-
munity involvement, costs and cost-savings of parti-
cipation, hygiene behaviour, patterns of use, health
impact, socio-economic impact, distribution of projects,
impact on the physical environment (especially the water
table).

PUBLICATIONS: - ARA consultants, Guidelines for the Evaluation of
CIDA's programme in the Upper Region of Ghana,
November 1979. Enquiries should be directed to:
Ray Farrington, Country Programme Manager,
Commonwealth Africa Division, C.I.D.A. 200 Promenade
du Portage, Hull, R.Q., Canada, K1A 0G4

SERVICES: Consultancy services on social research, programme
development, institution building, organization of
workshops.

ORGANIZATION: Institute for Environmental Studies,
University of Toronto

ADDRESS: Haultain Building Telephone: 978-6409
170 College Street Telex: 06-23887
Toronto Cable Address: full address
Ontario M5S 1A4
Canada

CONTACT PERSON: Dr. Anne V.T. Whyte, Associate Professor

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, French, Spanish

ACTIVITIES: Development of guidelines for WHO technical personnel
and others to incorporate community education and
participation programmes in national water supply
and sanitation programmes.
Selected and annotated translation from Spanish
into English of excerpts from manuals on community
education and participation used in the Colombian
national rural water supply and sewerage programme.

PUBLICATIONS: - Whyte, A. and Burton, I., Water supply and community
choice. In: water, wastes and health in hot climates,
1977, Wiley, England, Feacham, McGarry and Mara, eds.,
pp. 113-129

SERVICES: Technical assistance in social research/studies;
consultancies by project staff on social
research/studies and project/programme development;
professional advisory services on research,
project/programme development and development of
educational material.

ORGANIZATION: Centro de Investigaciones Multidisciplinarias en Desarrollo. (CIMDER)
(Centre for Multidisciplinary Research in Development).

ADDRESS: Ap. Aéreo 3708
Cali
Colombia

CONTACT PERSON: Dr. Jorge Saravia, Director

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: National/International

WORKING LANGUAGE: Spanish

ACTIVITIES: Integrated development programme including the stimulation of self-improvements in water and sanitation (pit and water-seal latrines, drainage, hygiene etc.). Village health workers develop a local health education and action programme, with community participation in all phases. Other activities include: training of village health workers and supervision; production of training and general health education material; health planning activities for the Primary Care level; administrative development for personal care and environmental care for the primary and secondary levels.

PUBLICATIONS:

- CIMDER, Manual de Saneamiento Ambiental,
- CIMDER, Manual de Organizacion y Funcionamiento de Grupos
- Rafael I. Rodríguez, Villa Rica, Cauca. In: M .Elmendorf (ed.), Seven Case Studies of Rural and Urban Fringe Areas in Latin America, vol.8, of World Bank, Transportation, Water and Telecommunications Department, Appropriate Technology in Water Supply and Sanitation, Dec. 1980.

SERVICES: Comprehensive health services, research, project/programme development, technical assistance for regionalization of health services/planning and implementation. Development of training materials.

- ORGANIZATION:** Instituto Nacional de Salud, Division de Saneamiento Básico Rural (National Institute of Health, Division of Basic Rural Sanitation)
- ADDRESS:** Avenida Eldorado con Carrera 50
Zona 6
Apartado Aéreo 80080 y 80334
Bogotá
Colombia
- CONTACT PERSON:** Orlando Lopez Orozco, Head of Promotion Dept.
- TYPE OF ORGANIZATION:** Governmental, semi-autonomous agency of Ministry of Health
- SCOPE OF ORGANIZATION:** National
- WORKING LANGUAGE:** Spanish
- ACTIVITIES:** Provision of piped supplies with yard connections, sewerage systems and septic tank toilets in rural areas, using outside and village contributions. For each project, a socio-economic feasibility study is carried out. Community participation is through a standard procedure: in planning (design, financing, organization) through general assemblies; in construction through flat labour contributions of participating households and in administration through a (partly elected) water committee. A general health education programme has been added, using mainly mass channels (films, slides, talks). A training programme for village administrators has also been recently added. Mobile promoters at rural level carry out all participation and education tasks. They are trained in basic sociological and programme skills for 3 months in four sessions over 3½ years. By 1978 over 500,000 rural people had received a water service, and over 220,000 sanitation.
- PUBLICATIONS:**
- Colombia, Rep. de, Manual de Procedimientos en Promoción Comunitaria para el Programa Nacional de Saneamiento Básico Rural, Instituto Nacional para Programas Especiales de Salud, Division de Saneamiento Básico Rural, Sección de Promoción, SBR No. 0062, Bogotá, 1975;
 - Colombia, Rep. de, Manual de Educación Sanitaria INDES, División de Saneamiento Básico Rural, Sección de Promoción, 1974.
 - Colombia, Rep. de, Programa de Capacitación de Acueductos y Alcantarillados Rurales, Instituto Nacional de Salud, Division de Saneamiento Básico Rural, Sección de Promoción Comunitaria, Bogotá, Noviembre de 1980.
 - Whyte, Dr. Anne (ed.), The Colombian field manuals and training guides for the promotion of community participation in water and sanitation schemes: a translated and edited version in English of the materials prepared by the National Institute of Health, Ministry of Public Health, Colombia (obtainable from IRC - see page 15)

ORGANIZATION: Centre for Development Research

ADDRESS: 9 Ny Kongensgade Telephone: 01-145700
DK-1472 Copenhagen K Cablé address: DEVERES
Denmark

CONTACT PERSON: Dr. Jannik Boesen, Senior Researcher

TYPE OF ORGANIZATION: NGO, Government supported

SCOPE OF ORGANIZATION: International: Tanzania, Bangladesh, Kenya

WORKING LANGUAGE: English

ACTIVITIES: Socio-economic feasibility studies in Iringa, Mbeya and Ruvuma regions in Tanzania. Development of a community participation and education programme in a rural water supply programme (gravity) in these regions.
Studies of socio-economic impact on women of East African rural water supply projects with and without participation. Evaluation of rural tubewell and handpump programme in Bangladesh.

PUBLICATIONS:

- Therkildsen, O., Laubjerg, K., Rural Water Supplies: Villager's Participation, Priority Design and Quality criteria, unpublished paper, 1981.
- K. Jørgensen, Some Social and Cultural Aspects of Rural Water Supply, paper presented at the World Bank/UNDP Handpump Project Advisory Panel Meeting, Braintree, England, October 11-13, 1981, 14 pp.
- K. Jørgensen, Water Supply Problems In Rural Africa: The Implications for Women, paper presented at the Interregional Seminar on Rural Water Supply, a contribution to the Preparation of the Water Decade, October 5-16, 1980, Uppsala, Sweden, 28 pp.
- BRALUP and Centre for Development Research, Water Master Plans for Iringa, Ruvuma and Mbeya Regions, Socio-Economic Studies, Volume 12, Dar es Salaam/Copenhagen 1982.

SERVICES: Studies/research, technical assistance to project/programme development.

ORGANIZATION: HCJB - Desarrollo Comunitario (HCJB Community Development)

ADDRESS: Casilla 691 Telephone: 241540
Quito
Ecuador

CONTACT PERSON: Jon Sevall, Assistant to Director of Community Development

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Ecuador

WORKING LANGUAGES: Spanish, Quechua

ACTIVITIES: Promotion of the construction by rural communities of their own water systems, latrines together with house improvements, primary health care and agricultural development. 60,000 people have been served in more than 300 communities. Also, 140 persons have been trained. Two types of training are given: a technical training on water systems and latrines for 2 weeks at a centre and 20 weeks on the job; and a training for health promoters with a 16-week institutional course followed by 3 years supervision in the field. Water systems of several types have been installed, including handpumps, group and house connections, and rainwater collection tanks for both group and individual household use. VIP latrines are encouraged, both individual and communal. Beneficiaries contribute to their water system construction both in money and labour. Maintenance is done by the community with help of maintenance personnel of HCJB. Women are involved through mothers' clubs and take part in construction labour. Health education is a central part of the work and various educational materials have been prepared both for the training of promoters and directly for the community. For instance, there is a leaflet on brushing of teeth in Quechua. Other materials deal with the construction and administration of water systems. In all work, the dialogue method of non-formal education is followed and has been successful.

SERVICES: HCJB is ready to offer its services free, to train or teach in the area of community education.

ORGANIZATION: Instituto Ecuatoriano de Obras Sanitarias (IEOS)
(Ecuadorian Institute of Sanitary Works)

ADDRESS: Toledo 684 y Lérida Telephone: 544400
Casilla 680 Telex 2489-IEOS-ED
Quito Cable address: IEOS
Ecuador

CONTACT PERSON: Lic. Eduardo Coral Obando, Head of the Department of
Promotion and Health Education

TYPE OF ORGANIZATION: Governmental, Semi-autonomous

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: Spanish

ACTIVITIES: The water supply systems which IEOS constructs in rural areas, including small towns, have an important element of community participation and education, which is the responsibility of the Promotion Department. So far, 150 communities have been served with a total population of 110,000.

The main type of water system installed is a piped supply (gravity or pumped) with house connections. Treatment includes chlorination and sometimes also slow sand filtration.

Beneficiaries contribute labour to the construction (its value reckoned to be 20% of the capital cost) and then get a free connection. The work is organized by a community water board (Junta de Agua Potable), and after completion the Junta administers the system. The IEOS promotor for the area establishes and guides the Junta. A local person is appointed operator, and paid by the Junta. This and other costs of operation and maintenance are met by tariffs charged by the Junta. At least 85% of the population takes a house connection, in each community.

The promotor also carries out health and sanitation education, and the Department has produced a number of educational materials including one in the form of a photo-novel to encourage latrine construction. The types of latrine encouraged are pour-flush and common pit latrines. In some communities, IEOS also constructs sewerage systems.

PUBLICATIONS: A number of documents have been produced, including a training manual for promotors. There is also an evaluation of the first 6 years of functioning in rural areas:
- IEOS, Sistemas de Agua Potable en el Area Rural y Participación Comunitaria, Quito, 1980

ORGANIZATION: SIM
Country office: Ethiopia

ADDRESS: Box 127 Telephone: 443305, 152113
Addis Ababa
Ethiopia

CONTACT PERSON: Mesfin Lemma, KHDP Water Works Coordinator

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Ethiopia

WORKING LANGUAGES: English, Amharic and other local languages

ACTIVITIES: The organization provides water supply systems in rural areas by means of equipment, supplies and technical assistance. The main sources of water are: springs, hand-dug wells, drilled wells, protection of water from ponds and rainwater catchment. The water is lifted by handpumps. Distribution is by gravity and pumping. Community appraisals are conducted as part of the planning process. Local committees are involved and public meetings are held to discuss the needs of the community, the planning of the project and the acceptance of the new facilities. Labour is contributed to aid in the construction of the water supply system. The operating costs of the facilities are financed by collective community funds and funds from outside organizations.

The organization provides training courses for promoters, community health workers, operators and technicians. Training materials on system operation, repair and maintenance have been developed.

SERVICES: Training, organization of workshops, and demonstration visits, information services, construction, maintenance, repair and financing.

ORGANIZATION: Medical and Health Headquarters
Medical and Health Department

ADDRESS: Banjul Telephone: 301, 300
The Gambia Cable address: Banjul

CONTACT PERSON: Dr. P. Gowers, Medical Officer of Health/Health
Education Unit

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Mandinka, Wolof, Fula and other local
languages

ACTIVITIES: The organization provides technical assistance in rural water supply and sanitation. The main source of water is hand-dug wells. Lifting technology includes handpumps and bucket and pulley. Distribution is by pumping and piping. Sanitation improvements include: excreta disposal (VIP latrines, trenches, bucket system, septic-tanksoakaway), solid waste refuse, waste water drainage, housing improvements, food protection, control of domestic animals and vector control.

Community appraisals have been conducted as part of the planning process for projects. Local committees are involved in the promoting, planning, use, maintenance and management of the new facilities, and all important topics are discussed in public meetings. Local women are actively involved in the promoting, acceptance, use and maintenance of the systems. The community contributes labour to aid in the construction phase of the project. The operating costs are financed by government funds and funds from outside organizations. The organization provides training courses for community health workers, technicians and sanitarians. Training materials for community health educators have been developed. Also general health education material and water and sanitation educational material have been produced.

PUBLICATIONS:

- Water and sanitation project booklet, by the Health Education Unit of the Medical and Health Department March-April 1983, English. Obtainable from: Water and Sanitation Project, c/o Department of Community Development, Banjul, The Gambia
- Village Health Worker Training Course, chapter on environmental sanitation, 1983. English. Obtainable from: Medical and Health Headquarters.
- Water and Sanitation project picture booklet (pre-testing stage)
- 16 mm film on water and sanitation (planning stage) in local languages.

ORGANIZATION: Department of Sociology, University of Ghana

ADDRESS: Box 65 Telephone: 75381
Legon
Accra
Ghana

CONTACT PERSON: Dr. Patrick A. Twumasi, Professor

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: A sociological study of rural water use. Much attention is given to community participation and health education in relation to water supply. Evaluation of water use patterns for improved and unimproved sources, user satisfaction and attitudes towards improvement, community participation in construction and maintenance, health impact and socio-economic impact.

PUBLICATIONS:

- Twumasi, P.A., Yangyuru, Y., Banuaku, A.F., A Sociological Study of Rural Water Use, Project Report for Ghana Water and Sewerage Cooperation Legon, 1977.
- Twumasi, P.A., Community Involvement in Solving Local Health Problems. In: Social Science and Medicine, Vol. 15A, 1981, pp. 169-174.

SERVICES: Technical assistance in project/programme development.

ORGANIZATION: Water Utilization Project, Community Education Programme

ADDRESS: P.O. Box 295 Telephone: 2225
Bolgatanga
Ghana

CONTACT PERSONS: Lynne Mahoney, Community Education Advisor
Mike Kudozia, Community Education Supervisor

TYPE OF ORGANIZATION: NGO, Voluntary, Government supported

SCOPE OF ORGANIZATION: Sub-national: Ghana Upper Region

WORKING LANGUAGES: English, Kusala, Grune, Wala, Kasem, Builsa

ACTIVITIES: The organization runs an ongoing community education programme in Water Hygiene and Sanitation in each village that has been served with handpumps by the Upper Region Water Supply Project. The education programme includes information on: the relationships between water and health, the protection of water supply, the use of water to promote good health, and the disposal of waste water. In case the handpumps break down, improvement in water protection practices is promoted by spring protection, hand-dug wells, drilled wells and boiling of water. Assistance in community sanitation projects is given on request. The types of sanitation technology include: private and communal pit latrines, soakaway pits, cattle troughs, gutters and refuse disposal by burning and burying. The organization is financed partly by an outside organization and partly by the local government. The programme is linked to projects on backyard gardening and Primary Health Care. One thousand villages are targeted for the year 1981-1982. Community participation, of both men and women takes place:

- in planning through community decisions on local priorities related to water and sanitation;
- in construction through labour contributions;
- in evaluation through a questionnaire on the functioning of the facilities, user satisfaction, health impact and socio-economic impact.

The facilities are owned by the outside funding agency and maintained by village caretakers. Health education is provided by voluntary health educators who give information through personal contacts and local education programmes. The volunteers attend a two day Basic Trainer Workshop and are supervised in the field every two weeks for three months prior to certification. In the field the volunteers adapt the health education messages to local circumstances with the help of local artists. Together they produce educational material, e.g. songs in local languages, puppet shows, posters and booklets.

PUBLICATIONS:

- Training manual on Site Development Activities
- Training manual on Community Education Activities
- Newsletter (bi-monthly)
- Progress reports (monthly)

SERVICES:

Training in community participation and education,
development of educational and training materials,
organization of workshops.

ORGANIZATION: (Asociación Pro-) Agua del Pueblo

ADDRESS: 41a Calle 5-01 Telephone: 40-9-13
 Zona 8 Cable address: PROADPGUAT
 Guatemala
 Guatemala

CONTACT PERSONS: Carlos Gómez Duarte, Executive Director
 Emilio Falla Escobar, Associate Technical Director

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National (also training and consulting for other
 Central American countries)

WORKING LANGUAGE: Spanish, Quiche

ACTIVITIES: Resulting from earlier pilot projects in water supply and sanitation Agua del Pueblo has developed a 6-month training course for rural water technicians. This intermediate-level manpower resource for governmental and non-governmental rural water supply programmes (called TAR after the Spanish Técnico en Acueductos Rurales) is trained for technical, social and educational tasks.

Training for participatory water supply projects includes the construction of simple gravity supplies, wells and sanitation facilities, the organization of community participation in planning, construction, operation and maintenance of the service, and training of and periodic assistance to the local administrative committees in project administration and credit management.

Training in community education includes project-related health education for adults on water use, hygiene, latrine construction, oral rehydration, reforestation and school health education. Educational materials produced for use by the technicians include films, plays, games, and planning cards for joint programme planning. The course participants are recruited by the water programme organizations. They are 20-35 years old natives of the area where they work, male and female, have already 12 years' education and experience in community work, and have passed a mathematics test and interview.

Agua del Pueblo also implements projects (up to 4 or 5 ongoing) for improvement of water supply and sanitation in rural areas with maximum community participation including in financing. The main type of water supply technology is gravity supplies with house connections and some public standposts. The types of sanitation technology include: private common pit latrines and housing improvements. The project has been linked to other rural development activities through a Federation of Private Voluntary Organizations whose goal is to improve coordination and investments within the sector.

Project identification studies and baseline indicator studies are regularly carried out.

Community participation takes place:

- in planning through committee meetings, general assemblies and basic interviews on choice of technology, finance and legal arrangements;
- in implementation through contributions in labour and locally available materials;
- in maintenance by trained village members.

The facilities are partly financed through the organization (revolving loan fund and project grant fund).

PUBLICATIONS:

- Agua del Pueblo, The Quiche Rural Potable Water and Latrine Programme, n.d.
- Agua del Pueblo, Programación Participante, Un Caso: Letrinización, (Participatory Programming, the Case of Latrine Introduction), Chimaltenango Rural Sanitation Program.
- Stephen Cox and Andrew Karp, Building Water and Sanitation Projects in Rural Guatemala, Journal of the American Water Works Association, April, 1982.
- Community Participation in Rural Water Projects. Journal of the Inter-American Foundation, volume 6, number 1, 1982
- Regional Study on the Feasibility of Training Paraprofessional Rural Water Technicians in Costa Rica, El Salvador, Honduras & Nicaragua. USAID Contract nr. AID/lac-G-1304. Agua del Pueblo, March. 1982.
- Sector analysis and program planning document for environmental sanitation activities in highland Guatemala, Agua del Pueblo (1980), USAID contract nr. 520-473, Guatemala

SERVICES:

Development of participation/education programmes, local institution building (committees), technical assistance, training, development of educational materials and teaching aids for community participation, organization of workshops, information services, programme design using project implementation methodology, and consulting services in rural water project implementation.

ORGANIZATION: Fundación Carrol Behrhorst

ADDRESS: Apartado postal no. 15
Chimaltenango
Guatemala

CONTACT PERSONS: Manuel de Jesús Sotoj Sánchez
Rubén Xoyón Morales

TYPE OF ORGANIZATION: NGO, Private foundation

SCOPE OF ORGANIZATION: Sub-national: Departments of Chimaltenango and Sololá

WORKING LANGUAGES: Spanish, Cakchiquel, Zutuhil and Quiché

ACTIVITIES: During the 1960's and 1970's the Foundation developed, under the leadership of Dr. Behrhorst, a programme for the training of village health workers. Starting from health, it has covered other fields including agriculture. The work in water supply involves the construction of gravity piped supplies with house connections. To date 29 communities and a total of 10,000 people have been served.

The community collects local materials and constructs the systems under the guidance of the Foundation. Of the other capital costs, a small part only is given as a grant: at least 65% is a loan repayable by the consumers through monthly tariffs. Between 5 and 12 community members are trained as plumbers (operators) and they look after the systems without payment. The foundation has promoters who have received extensive training as health workers and technicians in rural water supply. Altogether, there are 18 staff in outreach work and 4 at headquarters involved with educational and social activities. Most of these staff are from a poor peasant (Indian) background in the local area. Community participation is intensive and includes joint planning of projects. The facilities are maintained by the community with some expert help from the Foundation. Common pit latrines are encouraged along with housing improvements and other preventive as well as curative health care. One of the methods of health education developed is the use of popular theatre.

ORGANIZATION: Centro Regional de Abastecimento de Aguas
(Regional Centre for Water Supply)

ADDRESS: P.O. Box 399
Bissau
Guinea-Bissau

CONTACT PERSON: Drs. Jacques van Renselaar, sociologist

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: Sub-national: Quinara, Tombali.

WORKING LANGUAGES: Portuguese, French, Dutch, English

ACTIVITIES: Provision of shallow wells and handpumps (150/year) using mainly outside funds/material/manpower in 2 regions of Guinea-Bissau. The village leaders women and general assembly participate in planning (local survey, site selection, design, contribution to construction and maintenance). In construction, free labour, food and lodging are provided. Participation in maintenance is by 2 elected voluntary caretakers (1 male, 1 female). Village leaders and caretakers participate in half yearly evaluations on functioning of facilities, patterns of use, user satisfaction and socio-economic impact. Project promoters and village women plan, implement and evaluate a local health action programme (construction of laundry and bathing site, vegetable garden, nutrition demonstrations). Training of male and female promoters consists of a short action-oriented course (role playing, field visit, evaluation) and training on-the-job.

PUBLICATIONS:

- Ploeg, J.D. van der. A Activação social dentro do quadro do abastecimento de agua rural do projecto de agua em Buba e Tombali, Direcção Internacional de Ajuda Técnica e o Commissariado de Estado de Recursos Naturais, Guinea-Bissau, 1979.
- Ploeg, J.D. van der, Verslag van de Eerste Experimentele Evaluatie Ronde, (Report of the first Experimental Evaluation Series), Voorlichtingssektie PHRR/Buba/Tombali.
- Ploeg, J.D. van der and C.A. van Wijk-Sijbesma, Community Participation in the Rural Well Construction Programme of Guinea-Bissau, In Aqua 9/10, (1980), pp. 21-23.
- República da Guiné-Bissau, Rural Water Supply development, Experiences from the Buba Tombali Water Project, 1978-1981 (in preparation).

SERVICES: Social research/studies, project/programme development, training, organization of workshops.

ORGANIZATION: Oblates of Mary Immaculate
Country Office: Haïti

ADDRESS: B.P. 691 Telephone: 5-5654
40 Avenue N. Cable address: OBLATAVEN
Port-au-Prince
Haïti

CONTACT PERSON: Roger M. Hallee O.M.I., Adviser

TYPE OF ORGANIZATION: NGO, Religious

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: French, English, Creole

ACTIVITIES: The organization is involved in providing water supply and sanitation systems in rural areas through technical assistance by volunteers. The main sources of water are springs, hand-dug wells and drilled wells. Lifting technology includes handpumps and bucket and pulley. Distribution is by gravity and pumping. The sanitation improvements include pit latrines with slabs. Community participation is promoted in all phases of the project by public meetings and the involvement of local committees. Local women are actively involved in the water and sanitation activities. Community members contribute labour, materials and money to aid in the construction of the facilities. The operating costs are financed by user fees, collective community funds, government funds and funds from outside organizations. Local people are trained as promoters, community health workers and personnel for system operation and maintenance. The organization's work in water supply and sanitation is part of a larger programme on agricultural development.

ORGANIZATION: UFM International and Union Evangélique Baptiste
d'Haïti
Country Office: Haïti

ADDRESS: B.P. 458 Telephone: 2-3960
Port-au-Prince Cable address:
Haïti Unevangeld,
Fort Mercredi, Port-au-Prince

CONTACT PERSONS: Ben Loyer, Project Director
David Schmid, UFM Field Representative

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Haïti

WORKING LANGUAGES: English, French, Creole

ACTIVITIES: The organization's work in water supply is part of a larger programme on agricultural development in which technical assistance is provided to rural populations. The main sources of water are springs, hand-dug wells and drilled wells. The water is lifted by handpumps. Distribution is by gravity and pumping. Community appraisals are conducted as part of the planning process. Local committees are involved in all the phases of the project. Members of the community contribute labour, materials, and money to aid in the construction of the systems. Public meetings are held to discuss the maintenance and management of the facilities. Operating costs are financed by user fees. Local community health workers and personnel for system operation and maintenance have been trained.

SERVICES: Social studies, programme planning, information services.

ORGANIZATION: Comité Evangélico de Desarrollo y Emergencia Nacional (CEDEN)

ADDRESS: Colonia Reforma 005 Telephone: 32-1719
Apartado. 1478
Tegucigalpa, D.C.
Honduras

CONTACT PERSONS: Lic. Ruth Hernández and Sr. Jacobo Núñez, Heads of the Health Programme

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: 5 regions of Honduras

WORKING LANGUAGE: Spanish

ACTIVITIES: CEDEN helps rural communities with water and sanitation as well as in agricultural development. 12,000 people in 40 villages have been served to date, and 50 persons trained in courses for village workers in environmental sanitation etc. or as operators. Water systems built include handpumps and gravity and pumped supplies piped to household connections. The systems are financed by a loan paid back by the consumers, who also employ an operator (whose salary varies in different communities). The systems are evaluated by the community at a meeting of leaders once a year. One problem is that there are some community members who do not support the Community Development Committees. The type of latrine encouraged is the simple pit latrine. Health education is provided through the training of community members: written materials are seldom used because many of the people are illiterate.

ORGANIZATION: Action for Food Production (AFFRO)

ADDRESS: C 17, Community Centre Telephone: 667445, 660319
Safdarjang Development Area Cable address: AFFRO, New
New Delhi-110016 ND-110016
India

CONTACT PERSON: J.B. Singh, Executive Director

TYPE OF ORGANIZATION: NGO, Service organization

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Hindi, regional Indian languages

ACTIVITIES: AFFRO is a joint service organization for coordination, assistance and guidance of projects of voluntary agencies in support of and in close collaboration with the government. The headquarters at Delhi are supported by six technical teams. These teams are located at Maharashtra, Karnataka, Tamil Nadu, Bihar, Uttar Pradesh and Andhra Pradesh. They serve rural populations.
This organization's main sources of water are: springs, hand-dug wells, drilled wells and rainwater catchment. The water is lifted by handpumps. Distribution is by gravity and pumping. Community appraisals are conducted as part of the planning process. Public meetings are held to discuss the important aspects of the water supply. Local committees and local women are involved in the promoting, construction and acceptance phases of the project. Labour is contributed to aid in the construction of the systems. Operating costs are financed by collective community funds, government funds and funds from outside organizations. Local people have been trained as promoters, technicians and administrators and for system operation and maintenance. Technical reports on water resources development and training materials on system operation and maintenance have been produced.

PUBLICATIONS: - Technical reports on water resources development
- Brochures and newsletters

SERVICES: Programme planning, training, education, development of training and educational materials, organization of workshops and demonstration visits, information services.

- ORGANIZATION:** Centre for Medical Social Science and Social Medicine
- ADDRESS:** University of Hyderabad Cable address: KOCHAR
Nampally Station Road CENTRALVARISITY
Hyderabad 500 001
Andhra Pradesh
India
- CONTACT PERSON:** Dr. Vijay Kochar, Coordinator-In-Charge
- TYPE OF ORGANIZATION:** NGO, University
- SCOPE OF ORGANIZATION:** International (South Asia)
- WORKING LANGUAGE:** English, Indian and South Asian languages
- ACTIVITIES:** The activities of the organization include:
- design of community participation and education components for water and sanitation programmes and of community based self-improvement water and sanitation programmes (including management of water-related common ailments);
 - studies of water and sanitation behaviour/practices in relation to health impact of water and sanitation improvements;
 - evaluation of the working, management, organization and performance of water and sanitation programmes. Studies on sanitation habits and water use practices were conducted in two regions of India. Detailed research instruments and guidelines for socio-behavioural research on water and sanitation practices have been prepared. These instruments and guidelines for water and sanitation practices have been tested in four villages. These case studies will be released soon. Training programmes for folk practitioners and other villagers have been designed and tested for simple prevention and management of water related diseases. Guidelines for designing epidemiologically valid community education and participation programme components for water and sanitation decade have been formulated.
- PUBLICATIONS:** A number of publications, mimeographed reports and working documents are available on the above studies. For example see:
- Indian Journal of Preventive and Social Medicine, Vol. 8 (4), 1977; Vol. 9 (3), 1978; Vol. 10 (1), 1979
 - Sanitation in Developing Countries, edited by A. Pacey, 1978
 - International Journal of Health Education, Vol. 23 (3), 1980
 - V. Kochar, Guidelines for Designing Community Education and Participation Programme Components for the Water Supply and Sanitation Decade, Paper contributed to the Regional Workshops on IDWSS Decade Support Programmes and Projects, New-Delhi: 28 September - 1 October 1981.
 - V.K. Kochar et.al., Human Factors in the Regulation of Parasitic Infections in Cultural Ecology of

Hookworm Populations in Rural West Bengal. In: F.X. Grollig, H.B. Haley (eds) Medical Anthropology, The Hague, Mouton, 1976, pp. 287-312.

- V. Kochar, Intrinsic Regulators of Man-Parasite Interactions: Culture Patterns and Human Behaviour Relevant to Hygiene, Sanitation and Disposal of Excreta in a Rural West Bengal Region: Paper presented at the Conference "Sanitation in Developing Countries Today", OXFAM/Ross Institute of Tropical Hygiene, Oxford, 5-9 July, 1977, 23 p.

SERVICES:

Research/studies; programme development, programme reinforcement, training, programme evaluation; assistance on programme planning, implementation, management; assistance on organizational, educational, socio-behavioural, promotional and community participation aspects of rural health, sanitation and water supply programmes.

ORGANIZATION: Christian Welfare Centre,
Community Health Project

ADDRESS: Malappuram 676 505 Telephone: 254
Kerala
India

CONTACT PERSONS: Dr. Victoria Mathews, Medical Superintendent
Mr. Tharyan Mathews, Social Coordinator

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: Kerala, Malappuram Municipality

WORKING LANGUAGE: Malayalam

ACTIVITIES: Provision of water supply and sanitation facilities
in rural areas as a part of an integral Community
Health Programme.
The types of water supply technology include: hand-dug
wells, bucket and pulley and chlorination of water.
The types of sanitation technology include: private
water-seal latrines with washing facilities, housing
improvements and vector control. Up till now, roughly
5000 people have been served.
Before the start of a project a needs appraisal is
carried out.
Community participation:
- in planning by consultation of the community
in group discussion and personal contacts;
- in construction through contributions in labour
and materials;
- in maintenance.
The facilities are financed by an outside donor or-
ganization but owned by the community.
Technicians are trained in water supply and sanitation
technology through a one year full institutional
course.
Special attention is given to the integration of women
into the project. All Basic Health Workers are
(Muslim) women, trained on the job. They develop and
implement local (school) health education program-
mes and give health information through personal
contacts.
Evaluation studies show a decline in water-related
diseases.

SERVICES: Development of participation/education programmes,
training, organization of workshops, information
services. Free of charge.

ORGANIZATION: Faculty of Rural Health and Sanitation
Gandhigram Rural Institute (deemed University)

ADDRESS: P.O. Ambathurai RS
Madurai District
Tamil Nadu
India 624309

CONTACT PERSONS: Dean, Faculty of Rural Health and Sanitation
Registrar, Gandhigram Rural Institute (deemed University)

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English and Tamil

ACTIVITIES: The faculty was founded as part of the Gandhigram complex engaged in integrated rural development through multisectoral approaches on Gandhian principles. The faculty carries out training, extension and research in environmental health and helped in standardising the training of Sanitary/Health Inspectors in the country. Institutional training is combined with field training: a day in a week for 10 months followed by 8 weeks of supervised field training. A distinguishing feature is the one-year advance course - the Sanitary Science course - for senior in-service sanitarians to make them competent to execute the rural sanitary engineering works. Participants of many Indian states and other countries like Nepal, Bangladesh, Sri Lanka, Kenya, Somalia etc. attend this course. Students are engaged in extension work in rural areas propagating (1) the importance of protected water supply and waste water disposal, (2) manure pits, (3) low cost pour-flush latrines including biogas plants. The latrine materials are supplied at half cost.

PUBLICATIONS:

- R. Subramanian, R.D. Pillai, G.R. Subburaman, A.P. Barnabas, Local Caretakers for Handpumps in Tamil Nadu, India. In: Assignment Children, 45/46, Spring 1979, pp. 145-149.
- G.R. Subburaman, A. Muthiah, Health and Sanitary Conditions in Athoor Block, India, Gandhigram Rural Institute, May 1976.

- ORGANIZATION:** Gandhigram Institute of Rural Health and Family Welfare Trust (GIRH & FWT)
- ADDRESS:** P.O. Ambathurai R.S.
Madurai District
Tamil Nadu 624 309
India
- CONTACT PERSONS:** Dr. P.R. Dutt, Chief Coordinator
- TYPE OF ORGANIZATION:** NGO
- SCOPE OF ORGANIZATION:** National
- WORKING LANGUAGE:** English, Tamil
- ACTIVITIES:** Gandhigram, as befits an institution founded as part of the Gandhian movement, has always taken a strong interest in rural sanitation as well as in the other problems of the poor in the villages, and in working with the villagers as well as for them. Gandhigram is an institution of higher education and training at all levels, oriented to rural service, and also carries out various action projects and evaluation studies. WHO has published an 82-page Guide to the Integration of Health Education in Environmental Health Programmes, by former director K.A. Pisharoti (1975). Health education materials are produced and are available (in Tamil). Currently (1983) the Gandhigram Institute of Rural Health and Family Welfare Trust has, among others, an ongoing experimental action project in the field of sanitation with community participation. It involves the construction of communal latrines with bathrooms to be used by virtually all the population in a community of 35,000 people. Each family is to pay a monthly fee for their use, and the community welfare committee which is organizing the project will pay full-time attendants to keep the latrines well maintained and clean. In this way it is hoped to overcome the usual problems of communal latrines in a community where individual latrines have not proved an appropriate solution.
- PUBLICATIONS:**
- Gandhigram Institute of Rural Health and Family Planning, Research Activities 1964-1976, Major Findings and Implications. Bulletin of the GIRH & FWT, 1977.
 - P. Rajasekaran, Study on Travel of Pollution. Bulletin of GIRH & FWT, Vol. IV no. 3, June 1969.
 - P. Rajasekaran, P.R. Dutt and K.A. Pisharoti, Impact of Water Supply on the Incidence of Diarrhoea and Shigellosis among Children in Rural Communities in Madurai. In: Indian Journal of Medical Research, Vol. 66 no. 2, August 1977.
 - Dr. T. Dharmalingan, Programme for Promoting the Household Latrines in Rural Areas, Bulletin of GIRH & FWT, Vol, XV no. 1, March 1980.

- K.A. Pisharoti, Guide to the Integration of Health Education in Environmental Health Programmes, WHO Offset Publication no. 20, 1975.
- Health education materials (in Tamil)

SERVICES:

Research, training of health workers, development of training material, technical assistance in project development and implementation, institution building.

ORGANIZATION: Indian Institute of Management

ADDRESS: Vastrapur Telephone: 450041
Ahmedabad 380015 Telex: 12-351 IIMA IN
Gujarat Cable address: INDINMAN
India

CONTACT PERSON: Prof. Rushikesh Maru, Coordinator Health and
Population Unit, Public Systems Group

TYPE OF ORGANIZATION: NGO, Government supported

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: Project identification, appraisal and evaluation in
the fields of non-formal education and community
health. Management training of health and education
programme managers for community development tasks.

PUBLICATIONS: - Maru, R.M. Approaches to Community Participation
in Population Programme of India and Egypt. In:
Managing Community-Based Population Programmes,
Kuala Lumpur, ICOMP, 1978, pp. 23-39.
- Monographs, books, and papers on health and
education management.

SERVICES: Identification studies, appraisals and evaluations,
project development, management training, institution
building.

ORGANIZATION: Indian Rural Reconstruction Movement

ADDRESS: 49, Richmond Road
Bangalore 560025
Karnataka
India

CONTACT PERSON: Dr. G.N. Reddy

TYPE OF ORGANIZATION: NGO, Community-based

SCOPE OF ORGANIZATION: Sub-national: Andhra Pradesh, Tamil Nadu and Karnataka

WORKING LANGUAGES: Telegu, Tamil, Kannada, English

ACTIVITIES: As one of the activities in the field of integrated rural development, the organization provides water supply systems and water-sealed latrines. The main sources of water are hand-dug wells, drilled wells protection of water from ponds and rainwater catchment. Lifting technology includes handpumps and bucket and pulley. Distribution is by pumping. Public meetings are held to inform the community about the project. Community appraisals are conducted as part of the planning process. Local committees and local women are involved in the planning, training and acceptance phases. In the construction phase members of the community contribute labour and money. The operating costs of the facilities are financed by government funds and funds from outside organizations. Local people have been trained as promoters and community health workers. Training materials for community health educators have been developed. General health education material and water and sanitation educational material have been produced for use in the communities.

SERVICES: Social studies, programme planning, training, education, development of training and educational materials, organisation of workshops and demonstration visits.

ORGANIZATION: Kottar Social Service Society
Community Health Development Programme

ADDRESS: B.P. 17 Telephone: 2111
Nagercoil 629 001
Kanyakumari District
Tamil Nadu
India

CONTACT PERSON: Fr. T. Jesudason, Secretary

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: Kanyakumari District

WORKING LANGUAGES: Tamil, English

ACTIVITIES: Provision of water supply and sanitation facilities as a part of a village health programme and a comprehensive approach to Rural Development. The types of technology include: hand-dug wells and private water-seal latrines. Up till now roughly 5000 families have been served.
Community participation is sought in all phases of the project. Extension workers and community health workers are trained in regular sessions for one year. Health education material, aiming at a better environmental knowledge, changes in hygiene behaviour and conditions and community participation is developed and produced. Village health workers adapt health education messages to local circumstances and give information through personal contacts and local education programmes.
Evaluation studies are carried out to assess the role of participation and education for project success.

PUBLICATIONS:

- Kottar Social Service Society, An Approach to Community Health, K.S.S.S. Publication no. 14, 1981;
- Dr. John O'Field, Development at the grass roots: the organizational imperative, K.S.S.S. Publication no. 11, 1978-1979;
- Thirumalai Ashram Social Centre, A comprehensive approach to rural development, K.S.S.S. Publication no. 12, 1978-1979.

SERVICES: Technical assistance in implementation and training.

ORGANIZATION: Lutheran World Service
Country office: India

ADDRESS: 3 Hungerford Street Telephone: 44-0710,
Calcutta 700017 44-8979
West Bengal Telex: 21-3245 LWSI IN
India Cable address: LUTHSERVIS

CONTACT PERSON: Dr. Biswajit Sen, Community Health Organizer and
Medical Administrator

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: India

WORKING LANGUAGES: English, Bengali, Hindi, Oriya

ACTIVITIES: The organization provides assistance in the area of water supply and sanitation by means of equipment, supplies, technical assistance and materials for education and training. The main sources of water are hand-dug wells, drilled wells, protection of water from ponds and rainwater catchment. The water is lifted by handpumps. The types of sanitation technology include: pit latrines and waste water drainage. Community appraisals are conducted as part of the planning process. The community participates in the project activities through: public meetings concerning the needs of the community, training, education and acceptance; the involvement of local committees in the training and acceptance phase; contributions in labour. The operating costs are financed by collective community funds. The organization has trained local people as community health workers and personnel for system operation, repair and maintenance. Training materials for community health educators and general health education material for communities have been developed. The organization works in rural and periurban areas. The water supply and sanitation activities form part of a larger programme on primary health care and agricultural development.

PUBLICATIONS:

- Annual Reports available from S.J. Nathan, Programme Secretary
- Two evaluation reports on water resources project of Lutheran World Service (India), available from S.J. Nathan, Programme Secretary
- Medical treatment of common illnesses for village health workers, a short manual in English and Bengali.

ORGANIZATION: Planning, Research and Action Institute (PRAI)

ADDRESS: Kalakankar House Telephone: 25833/25496
Lucknow
Uttar Pradesh
India

CONTACT PERSON: Dr. H.S. Mathur, Senior Associate Rural Health

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: The organization is involved in research, planning and evaluation for sanitation in rural areas. The PRAI model of latrine was the first to be promoted on a large scale in India, and the institution has been involved in the monitoring and evaluation of this process and related health education. Health education materials developed and distributed include flash cards, pamphlets, filmstrips, and flannel graphs.

PUBLICATIONS:

- PRAI, Induced Change in Health Behaviour, A Study of a Pilot Environmental Sanitation Project in Uttar Pradesh, PRAI Publication no. 356, Lucknow, India, July 1968, 176 pp.
- The Village That Changed (flash cards).
- Improved Latrines (pamphlets).
- Sanitary Latrine (filmstrip).
- Fly, Friend or Foe (flannel graph).
- Safe and Clean Drinking Water (flannel graph).

SERVICES: Research, technical assistance in project planning and implementation; distribution of health education materials.

ORGANIZATION: National Council of Educational Research and Training

ADDRESS: Sri Aurobindo Marg
New Delhi 110 016
India

CONTACT PERSON: Prof. Dr. P.N.Dave, Head Comprehensive Approach to
Primary Education Group.

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: The organization develops educational material for non-formal primary education including environmental sanitation. This material aims at a better understanding of environmental health problems and improvements in individual behaviour and household conditions. Using simple booklets teachers and students are encouraged to observe existing conditions in their village and discuss them with the health worker, sanitary inspector, other villagers etc. Elementary teachers and educators are trained through workshops to develop their own material, adapted to their area where they are working.

PUBLICATIONS:

- P.N.Dave, Developing Relevance-Based Learning Materials. A Record of Experiences with Exemplar Learning Materials, UNESCO, Unit for Cooperation with UNICEF, Series Notes, Comments, Paris, November 1979.
- J.N. Purohit, Improving Sanitary Conditions of the Village Surroundings, module 21, National Council of Educational Research and training, Comprehensive Access to Primary Education Group, New Delhi, november 1980.
- K. Khanna, S.P. Mullick, Harmful Insects, module 61, National Council of Educational Research and Training, Comprehensive Access to Primary Education Group, New Delhi, October 1980

ORGANIZATION: The Rural Reconstruction Service Society

ADDRESS: 17225 Bakaram
Musheerabad
Hyderabad 500048
Andhra Pradesh
India

CONTACT PERSON: L.M. Benjamin, President.

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: Andhra Pradesh

WORKING LANGUAGE: Telugu

ACTIVITIES: The scope of the organization is to support rural people to improve their living-conditions. In 7 villages a community water supply and sanitation scheme has been developed and will be implemented as soon as the required funds are forthcoming. Much attention is given to the community participation and health education component.

ORGANIZATION: Safai Vidyalaya - Sanitation Institute

ADDRESS: Gandhi Ashram Telephone: 866250
Ahmedabad 380 027
Gujarat
India

CONTACT PERSON: Ishwarbhai Patel, Director

TYPE OF ORGANIZATION: NGO, Government supported

SCOPE OF ORGANIZATION: National and Sub-National (Gujarat)

WORKING LANGUAGES: English and Indian Languages

ACTIVITIES: The organization assists local governments in urban and rural areas in the planning of construction and education programmes for latrine conversions. The organization also coordinates the organization of training camps for villagers to stimulate self-improvements in sanitation by individual households (sanitary latrines, soakage pits, water storage facilities etc.). Technical manpower of different levels (inspectors, contractors, sweepers) are trained in community education and latrine conversion. Education material produced includes posters, slides, films and booklets for programme, project, users and health education. In 1977, 123,941 latrines had been converted. The average number of village training camps organized per year is 127, resulting in the construction of 7550 sanitary latrines and 9275 soakage pits.

PUBLICATIONS:

- A number of books on village sanitation in Indian languages.
- A number of folders and posters on sanitation in Indian languages.

SERVICES: Technical assistance in programme development, training, development of training and educational material, organization of workshops and seminars.

ORGANIZATION: Seminary, Shramadana Sangha
(St. Joseph's Seminary Social Service League)

ADDRESS: St. Joseph's Seminary Telephone: 25056
P.B. No. 503
Mangalore 575 002
Karnataka
India

CONTACT PERSON: Fr. Valerian D'Souza S.J., Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: Karnataka (Mangalore)

WORKING LANGUAGE: English

ACTIVITIES: Provision is made of water supply and sanitation in sub-urban areas, using outside funds and stimulation of self-financed improvements. The type of water supply technology includes: hand-dug wells. The type of sanitation technology includes: private pit latrines with washing facilities. The projects form part of Integrated Development Programmes which include: housing, formal education, employment, health care, recreation, etc. In 1982 around 100 families have been served.

Community participation:

- in planning through awareness building, community decisions on local priorities (in meetings) and identification of local resources (government, banks, etc.);
- in construction through labour and cash contributions;
- in maintenance.

Social workers give general information on health, hygiene, cleanliness and nutrition through personal contacts.

ORGANIZATION: The Social Work and Research Centre (SWRC)

ADDRESS: Main Office: Telephone: 316
 Tilonia 305812
 Madanganj
 District Ajmer
 Rajasthan
 India

Sub-centres:
 Jawaja 305922 Khori 123101
 District Ajmer District Mohindergarh
 Rajasthan Haryana
 India India

Village Nani Sarsan
 P.O. Moti Sarsan
 Via Lunawada
 Panchmahal 389230
 Gujarat
 India

CONTACT PERSONS: Sanjit (Bunker) Roy, Director
 Ram Swaroop Vyas, Community Participation Advisor
 Stayajit Bhattacharya, Community Participation Advisor
 M.S. Jhala, Project Director Jawaja
 Sunder Singh, Director Haryana
 Giriraj Singh, Gujarat

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Hindi, Gujarati, Tamil, Oriya

ACTIVITIES: Provision of drinking water supply facilities as a part of an integrated approach to rural development. The types of water supply technology include: hand-dug wells, drilled wells, bored wells, handpumps and rainwater collection. Up till now, more than 100,000 people have been served. The community participates in site selection for hand pump installation. Also the community contributes cash (Rs. 500) and services, e.g. labour and the collection of raw materials. A new 1 Tier maintenance system for hand pump maintenance has been tried out with remarkable results. The community identifies and selects illiterate and semi-literate local people for in-service training. After a 3 months training course, these people conduct all major and minor repairs on hand pumps. Jeeps, trucks or trained engineers are no longer required. This 1 Tier system brings overall costs down from Rs 500/handpump/year to Rs 100/hand-pump/year. In-service training for handpump caretakers is organised regularly along other training courses for community health workers, traditional midwives and village-level multipurpose workers, including women involved in income generating activities. Preventive health information on water related diseases is

communicated through personal contact, 30 non-formal evening schools and traditional communication media like puppet shows. Already over 200 shows have been organised to reach 100,000 people in about 90 villages. A fully equipped village-level laboratory for water contamination tests is in operation. Village level boys have been trained to conduct these sophisticated tests.

Facilities for making posters and charts drawn by village artists are available and used for dissemination of information on water-related diseases.

PUBLICATIONS:

A number of publications related to repair and maintenance of handpumps including a Guide Book for Village Leaders on how to monitor the handpump maintenance system is available on request.

SERVICES:

Development of audiovisual training and educational materials, social research, organisation of workshops, training programmes in repair and maintenance of village water supply, planning and monitoring of programme with community support.

ORGANIZATION: Sulabh International

ADDRESS: Gandhi Maidan Telephone: (O) 23493, 22995
 Patna 800 001 (R) 26022, 31317
 Bihar
 India Cable address: "Sulabh" Patna

CONTACT PERSON: Bindeshwar Pathak, Chairman

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: International: India, Sri Lanka, Bangladesh, Nepal and Afghanistan

WORKING LANGUAGES: English and Hindi

ACTIVITIES: The organization acts as an implementing agency to the State Governments for conversion of bucket latrines into Sulabh Shauchalayas (hand-flush water-seal latrines) in both urban and rural areas. Up till now over 100,000 service latrines have been converted into Sulabh Shauchalayas. Voluntary extension workers identify target households and motivate them to authorize the organisation to make all construction and financing arrangements. Half of the cost of the conversion is provided by the concerned government and the rest is given as loan to the house owner through the municipal committee of the area concerned. The organisation also takes follow-up actions and supervises the functioning of the Sulabh Shauchalayas. Hundreds of scavengers have been liberated from carrying night-soil on their heads and have been provided alternative employment like cleaning roads and drains. Attempts are being made to train them in other occupations like typing, nursing, driving, dairy farming, masonry, carpentry, etc. Eight towns in Bihar (India) have been declared free of scavengers. The organisation constructs and maintains community toilets and baths in various public places like railway stations, bus stands, market areas, hospitals and office compounds. People in nearly 10 states of India have been provided with community toilets and baths constructed and maintained by the organisation on pay-and-use system. Evaluation studies are carried out to assess satisfaction of the beneficiaries and socio-economic and health impact of the facilities.

PUBLICATIONS: - Pathak, Bindeshwar, Sulabh Shauchalaya - A Simple Idea That Worked, Pub. Amola Prakashan, Patna, India
 - Pathak, Bindeshwar, Sulabh Shauchalaya - A Study of Directed Change, Pub. Amola Prakashan, Patna, India

SERVICES: Environmental sanitation; studies/research, project development and implementation, technical cooperation between developing countries, bio-gas from human waste.

ORGANIZATION: Tata Institute of Social Sciences

ADDRESS: Sion-Trombay Road Telephone: 523701
Deonar Cable address: Fernstalk Chem
P.O. Box 8313
Bombay-400 088
Maharashtra
India

CONTACT PERSON: Dr. P.K. Muttagi, Head Unit for Urban Studies

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National and Sub-National (Maharashtra)

WORKING LANGUAGE: English

ACTIVITIES: The Institute runs a number of short term programmes for trained and voluntary social workers from both urban and rural areas. The faculty is actively engaged in research, e.g. socio-economic feasibility studies to assess payment capacities and financing policy for water supply and sewerage services (as compared to various types of on-site latrines) in urban and urban fringe areas. Community participation of users is emphasized in the rural areas and low-income urban quarters and squatters settlements especially for group connections and communal latrines.

PUBLICATIONS: - P.K. Muttagi, The Bombay Metropolitan Region, a Socio Economic Study of the Project Area, Unit for Urban Studies, Tata Institute of Social Sciences, Bombay, n.d. (ca. 1979).

SERVICES: Social research/studies, programme evaluation, manpower development and training.

ORGANIZATION: Udaipur Environmental Action Group

ADDRESS: 206 Ashok Nagar Road No. 13
Udaipur 313001
Rajasthan
India

CONTACT PERSON: Dr. L.L. Sharma, Secretary General

TYPE OF ORGANIZATION: NGO, Voluntary youth organization

SCOPE OF ORGANIZATION: Local

WORKING LANGUAGES: English, Hindi

ACTIVITIES: The organization is involved in the conservation of drinking water lakes in an urban area. The organization investigates the problem through evaluation of present excreta disposal practices and study of water contamination in relation to public health. The research findings are highlighted to the people involved in public meetings. Appropriate measures to improve the drinking water quality and quantity are taken after consultation with the local community.
Environmental education training courses are organized for the local youth to stimulate them to undertake conservation work or action programmes concerning water pollution and related aspects. Training and educational materials have been developed on general aspects of environmental education including public health hazards due to water contamination. The environmental education activities include a radio programme on this topic.

PUBLICATIONS:

- Special WED Bulletin on Water (1979), Managing Editor L.L. Sharma (out of print)
- Report of Ecodevelopment Camp 1980: on the Impact of Habitation on Drinking Water Sources of Udaipur, 73 p. (out of print)
- Wall Charts (in Hindi)

SERVICES: Training education, development of training and educational materials, organization of workshops and demonstration visits.

ORGANIZATION: VIKAS, Centre for Development

ADDRESS: Dalal House Telephone: 445407
Panchvati Marg
Ahmedabad 380 006
Gujarat
India

CONTACT PERSONS: Mrs. Ranna Shah, Executive Secretary
Mr. Rajesh Shah, Executive Secretary

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: Gujarat

WORKING LANGUAGES: English, Hindi, Gujarati

ACTIVITIES: Provision of water supply and sanitation facilities in urban, low-income, squatter settlements. The types of water supply technology include: public standposts, group connections and house connections. The types of sanitation technology include: communal water-seal latrines, waste water drainage, refuse disposal and housing improvements. Up till now about 3000 families have been served. The project is under expansion.

Socio-economic feasibility studies are carried out on organizational aspects, accessibility and utilisation rate of existing facilities, and participation.

Community participation, of men as well as women:

- in planning through joint decisions of community and agency on maintenance systems;
- in implementation through contribution in cash, kind and supervision;
- in maintenance.

The facilities are partly financed by the community (collective fund), and partly by the government and an outside organization.

Technicians, sanitarians and community organizers are trained in sanitation organization and community work through a full time institutional course of two years. Sanitation workers are trained in sanitation maintenance (in training camps, once a month).

Training on the job (for twelve weeks) is provided for community health workers. They learn to develop local education programmes. Health education material (slides, charts) has been produced on water supply, sanitation and water related diseases, especially for women and youth groups.

Evaluation studies have been performed to measure costs and cost-savings of participation, health impact and socio-economic impact.

PUBLICATIONS: Newsletters and work reports are available upon request.

SERVICES: Social research, project/programme development, implementation, training, institution building and development and production of educational material.

ORGANIZATION: Voluntary Health Association of India

ADDRESS: C-14 Community Centre Telephone: 668071, 668072
Safdarjung Development Area Cable address: VOLHEALTH
New Delhi
India

CONTACT PERSONS: Averthanus D'Souza, Executive Director
Augustine Veliath, Publications Officer
Mrs. Chandra Kannapiran, Information Service-in-Charge

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Indian languages

ACTIVITIES/SERVICES: VHAI is a federation of fifteen voluntary health associations for the promotion of community health. It conducts seminars, workshops, and other education programmes on community health. The organization promotes the education of village based community health volunteers and helps people to develop or extend community health services and programmes. Its field experiences are put together in the form of health learning materials. VHAI publishes books, a magazine, pamphlets, flash cards, flannel graphs, film strips and slides. On top of this, the organization collects and distributes health learning materials from all over the world. Since 1981-90 has been declared as the 'Drinking Water Supply and Sanitation decade', the organization supports this effort through an educational programme on water related health problems.

PUBLICATIONS:

- Better Diarrhoea Care, Booklet, filmstrip, slides, flashcards.
- Teaching Village Health Workers, a Guide
- Planning Dialogue in the Community
- How to prevent Cholera in Villages
- Village Sanitation Improvement Scheme
- Simple Village Survey and House-to House Survey
- Part-time Village Health Workers
- Health for the Millions, VHAI bulletin, issued 6 times a year.

Free catalogue of educational material on request.

ORGANIZATION: Xavier Institute of Social Service

ADDRESS: Purulia Road Telephone: 22769
P.O. Box 7 Cable address: AXIS
Ranchi 834001
Bihar
India

CONTACT PERSON: Dr. M.v.d. Bogaert, S.J., Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-National: Bihar

WORKING LANGUAGES: English and Hindi

ACTIVITIES: Action research and implementation of a Solar Pump for potable water supply in a tribal village. Community participation in all phases of the project. Evaluation of the results of the Sulabh Sauchalaya Sansthan programme for the conversion of service latrines in Ranchi city. Collected data include user satisfaction, observed health impact and the distribution of burdens and benefits over the existing socio-economic classes. A two years' full time institutional course is provided for promoters. Community education material (posters and booklets for neo-literates) for project participation has been produced and distributed.

PUBLICATIONS: Xavier Institute of Social Service, Sulabh Sauchalaya at Ranchi, A Case of Social Entrepreneurship, Ranchi, March 1979.

SERVICES: Social research, project/programme development, training, development of education material, organization of workshops.

ORGANIZATION: CARE Indonesia

ADDRESS: Jl. Ciniro I/14 Telephone: 771046
P.O. Box 307 KBY Cable address: CAREJAK-JAKARTA
Jakarta Selatan
Indonesia

CONTACT PERSONS: Ellis E. Franklin, Director
Joseph Kessler, CARE NTB
Dana Krisna, CARE West Java
Maurice R. Alarie, CARE Sulawesi

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: selected provinces of Indonesia

WORKING LANGUAGES: English, Indonesian

ACTIVITIES: The organization is involved in provision of water supply systems and stimulation of self-improvements in sanitation facilities in rural areas. The types of water supply technology include: spring protection, hand-dug wells, drilled wells, handpumps, gravity supply, public standposts, communal rainwater collection and hydraulic rams. The types of sanitation technology include: communal water seal latrines with washing facilities and waste water drainage (open ditches). Up to January 1983 approximately 50 gravity flow water systems and 1,000 handpumps have been completed. Community participation takes place:

- in planning through consultation of the community on project design and implementation by means of community meetings and through joint decisions of community and agency on the location of water points by means of group meetings;
- in implementation through contributions in labour and materials;
- in maintenance without help from others.

The facilities are owned by the community and financed by flat user fees and collective community funds. Health education is integrated into the programme by health educators who give information through personal contacts. Attempts are made to adapt health education messages to local circumstances. Training is given to government technicians at district level in water system design and construction for 1-2 weeks in the classroom with follow-up field work in actual construction. Private voluntary organizations are given ad hoc training on the job in water system design and implementation. Local operators are trained in maintenance and repair. Up to January 1983 more than 150 people have been trained. Pamphlets, flip charts, booklets and manuals have been designed and distributed. These education and training materials (in Indonesian) are used for school children, villagers, field workers and government workers to promote usage, maintenance and repair of the facilities and to promote personal hygiene.

All projects are monitored for usage, maintenance and repair. An evaluation of all projects implemented between 1979 and 1983 is underway.

PUBLICATIONS:

- A. Scott Faiia, Gravity Flow Water Systems: Design Notes for Simple Rural Water Systems. Training manual, 1982, 46 pages, in English and Indonesian.
- A. Scott Faiia, Design Problems for Simple Rural Water Systems. Training manual, 1982, 34 pages, in English and Indonesian.
- Dr. Zeke Rabkin, Report and Recommendations for Health Education activities: the Health Development Process: Finding the Right Pieces to the Puzzle. 1982, 90 pages plus appendices, in English only.
- Pamphlets on water seal latrines and clean water in Indonesia.
- Flip chart on relation between water/sanitation and diseases.
- Booklets on handpumps, water and sanitation in Indonesia.

SERVICES:

Project/programme development, training.

ORGANIZATION: Project Concern - North Sulawesi, Indonesia

ADDRESS: P.O. Box 36 Telex number: 74122 BAP MDO
Manado
Indonesia

CONTACT PERSON: Robert Weierbach, Programme Director

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: Sub-national: North Sulawesi

WORKING LANGUAGES: Indonesian, English

ACTIVITIES: As part of a larger project on Primary Health Care in rural and urban areas, the organization provides equipment and supplies for the construction of water seal latrines. Community appraisals are conducted as part of the planning process. The local population is involved in the sanitation activities through a public meeting. Community members contribute labour to aid in the construction of the facilities. Community health education is integrated in the project. For this purpose, health education materials have been designed.

SERVICES: Programme planning, education.

- ORGANIZATION:** Pusat Studi Lingkungan Hidup - Institut Teknologi Bandung
(Centre for Environmental Studies - Bandung Institute of Technology).
- ADDRESS:** Jalan Cimandiri 38
P.O. Box 372
Bandung
Indonesia
- CONTACT PERSON:** Prof.Ir. Hasan Poerbo MCD, Chairman of the Research Council and Director of the PSLH-ITB
- TYPE OF ORGANIZATION:** University
- SCOPE OF ORGANIZATION:** National
- WORKING LANGUAGE:** Indonesian
- ACTIVITIES:** The Centre undertakes activities - usually through field projects - to increase its understanding of the environment, to evaluate and recommend changes in government policies and to help local communities improve their own conditions of life. Its activities include stimulation of self-improvements in community water supply and sanitation facilities through community participation. An example is a feasibility study and implementation of a cooperative for the collection and recycling (composting) of household refuse in a low-income area of Bandung town. The households participate by sorting the refuse into organic and inorganic matter. Compensation of their work will be either by lower collection rates or by profit sharing in the compost production.
The Centre runs a training course to build up a professional staff in various environmental fields.
- PUBLICATIONS:**
- Boenders, M., Poerbo, H., (eds.) The Informal Sector in the Botabek Area, Inception Report, The Ministry of Development Cooperation, The Netherlands, The Ministry of Development Supervision and the Environment, Indonesia, July 1981.
 - Boenders, M., Poerbo, H., (eds) The Informal Sector in the Botabek Area, First Progress Report, The Ministry of Development Cooperation, The Netherlands, The Ministry of Development Supervision and the Environment, Indonesia, September 1981.
 - Howard, Jeanne and B. Mutunayagam, Integrated Village Development: An Experiment in Interactive Decision-Making for Rural Development in Ciamis. Report on the Cooperative Project on Integrated Village Development of PSLH-ITB and the Regional Government Authority of Ciamis. Bandung: PSLH-ITB, September 1980.

- Nurdjaman, Taty and Suparti A.S., List of Library Titles on the Environment of Human Settlements. Bandung: PSLH-ITB, October, 1980 (1375 titles).

SERVICES:

Social research, programme development, institution building, training, information services.

ORGANIZATION: Yayasan Dian Desa

ADDRESS: Jl. Kaliurang Km 7 Telephone: 87885
 P.O. Box 19 Bulaksumur Telex 25370 Dian Desa
 Yogyakarta Cable address: Dian Desa
 Indonesia Yogyakarta

CONTACT PERSONS: Anton Soedjarwo, Director
 Anton Lowa
 Alexander Weka, YDD's Training Department

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Bahasa Indonesian and Javanese

ACTIVITIES: The organisation is involved in providing water supply systems in rural and periurban areas. The main sources of water are springs, hand-dug wells, drilled wells, disinfection and sedimentation of water from rivers, protection of water from ponds, and rainwater catchment. Lifting technology includes handpumps and bucket and pulley. Distribution is by gravity and pumping. The organization's work in water supply is part of a larger programme on agricultural development, nutrition, appropriate technology development, training and education.

Community appraisals are conducted as part of the planning process. Community participation is seen as the backbone of the programme and is promoted in all phases from planning to maintenance. Public meetings are held and local committees selected to involve the communities in all aspects of the programme. Community members contribute labour and materials to aid in the construction of the water supply systems. Women are specially involved in the maintenance of the systems. Promoters educate the community about health related to water for which water and sanitation educational materials have been produced.

Much attention is given to the training of personnel for system operation and maintenance. For this purpose training materials on system operation and maintenance have been developed.

PUBLICATIONS: - Reports, articles, brochures, newsletters

SERVICES: Social studies, programme planning, institution building, training, education, development of training and educational materials, organization of workshops and demonstration visits, information services, construction, maintenance and repair.

ITALY

ORGANIZATION: Lay Volunteers International Association (LVIA)

ADDRESS: Via Meucci 36 Telephone: (0171) 62558
12100 Cuneo
Italy

CONTACT PERSON: Aldo Benevelli, President

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: International (Africa)

WORKING LANGUAGES: French, English, Italian

ACTIVITIES: As one of its activities in the field of rural development the organization provides water supply and sanitation systems in rural areas. The main sources of water are hand-dug wells, drilled wells and rainwater catchment. Lifting technology includes handpumps, bucket and pulley and windmills. Distribution is by pumping and the use of windmills. The sanitation improvements include latrines, housing improvements, food protection, control of domestic animals, vector control.

Community appraisals are conducted as part of the planning process. Community participation of men and women is promoted in all phases of the project through public meetings, the involvement of local committees and community contributions in labour, materials and money. The operating costs of the systems are financed by user fees and funds from outside organizations. Much attention is given to the motivation and education of the communities for which general health education material and special water and sanitation promotional material is used.

Local people are trained as promoters, community health workers, personnel for system operation and maintenance and technicians. Training materials for community health educators and local operators have been developed.

PUBLICATIONS: - Balume-Traoré, Imparare e crescere insieme
- Beppe Beccaria, Come impiantare una eoliana
All in Italian, editions of LVIA.

SERVICES: Programme planning, training, education, organization of workshops and demonstration visits, construction, maintenance and repair.

ORGANIZATION: Institut Africain pour le Développement Economique et Social (INADES-Documentation).
(African Institute for Economic and Social Development)

ADDRESS: 15, Avenue Jean Mermoz Telephone: 443128/441594
Cocody
08 B.P. 8
Abidjan 08
Ivory Coast

CONTACT PERSON: Nicole Vial

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: International: Burundi, Cameroon, Ethiopia, Kenya, Rwanda, Togo, Tchad, Upper Volta, Zaire, Ivory Coast

WORKING LANGUAGES: French, English

ACTIVITIES/SERVICES: Publication of educational material for rural promoters on environmental health knowledge and self-improvements in water supply and sanitation (supply protection and improvements, pit latrines, showers). Distribution through national offices.

PUBLICATIONS: - INADES Formation and Institut National de Santé Publique, L'Eau et la Santé, (2 booklets) Price: CFA 700.

ORGANIZATION: Office National de Promotion Rurale (O.N.P.R.)
(National Bureau of Rural Promotion)

ADDRESS: Immeuble la Pyramide Telephone: 323579
B.P. 20225
Abidjan
Ivory Coast

CONTACT PERSON: Ousmane Diarra, General Director

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: French

ACTIVITIES: Planning and implementation of a community participation and education programme for the national rural well programme. A mobile team uses slides, models, charts and posters for project information and project-related health education. The village water committee (3 males, 3 females) is trained to stimulate self-improvements in water and sanitation by the village households.

PUBLICATIONS: - O.N.P.R., Programme-Eau.

ORGANIZATION: African Medical and Research Foundation (AMREF)
Health Behaviour and Education Department

ADDRESS: Wilson Airport Telephone: 501301
Langata Road Telex: AMREF c/o 22117 NOREL
P.O. Box 30125 Cable address: AFRIFOUN
Nairobi
Kenya

CONTACT PERSON: Head Dpt. of Health Behaviour and Education

TYPE OF ORGANIZATION: NGO, Research Organization, Overseas Funded.

SCOPE OF ORGANIZATION: International: Eastern Africa (Kenya, Tanzania, Sudan, Botswana)

WORKING LANGUAGES: English, Swahili

ACTIVITIES: Provision is made of water supply and sanitation facilities for rural scattered and nomadic populations. The types of water supply technology include: spring protection, hand-dug wells, bucket and pulley and individual rainwater collectors (roof catchment with storage). The types of sanitation technology include: private common pit latrines, refuse disposal (burying), housing improvements and vector control. The types of preparatory social studies include: project identification studies, baseline indicator studies, needs appraisal, social feasibility studies. The projects are linked to Primary Health Care. Up till now about 40,000 people have been integrated into the programme. Community participation, of men and women:

- in planning through consultation with the community in elders meetings and group meetings on all health related problems;
- in implementation through labour and cash contributions;
- in maintenance by community members with help in repairs from the local staff;
- in evaluation through meetings in which the community can react on utilization, siting, etc.

Community funds are set up to finance the facilities and to remunerate the community health workers. The organization's main emphasis is on health education. An identification study for the health education component of a water and sanitation project has been undertaken in South Sudan. Training material on health education and environmental improvements has been developed for community health workers. A one week full time training course with sequential group training is provided for community health workers. They are trained to develop local educational programmes.

Evaluations are made of completed water supplies on functioning, payment, water use, user satisfaction, environmental health knowledge and commitment of community health workers and local leaders.

PUBLICATIONS:

- Scotney, N., Rural Water Supply Evaluation, Report on Some Relevant Social Factors Based on a Survey of Three RWS Schemes, Ministry of Water Development, Nairobi, 1976, 65 pp., 6 app., ill.
- Scotney, N., Health Education, A Manual for Medical Assistants and other Rural Health Workers, Rural Health Series, 3, AMREF, Nairobi, 1976
- Scotney, N., Water and Rural Development, in J.B. Castellino, C.R.M. Khamais, (eds.), The Role of Water Resources in Development, Proceedings of the 13th Annual Symposium of the East African Academy, September 1977
- Scotney, N., Developing a Health Education Component for the Unicef Water and Sanitation Programme in Sudan, Consultancy Report May 17-June 1, 1980, AMREF, Nairobi, June 1980, 23 pp., 4 app.
- Choudry, W.A., Kagimba, J., Scotney, N., Marich Road Camp Health Needs, A Report to the Norwegian Agency for International Development, in AMREF Third Annual Progress Report, Nairobi, Kenya, 1980.
- Owor-Omondi, The Training of Community health Workers, Kibwezi Rural Health Scheme; Position Paper no. 1, January, 1979.
- Defender, quarterly health magazine.
- Afya, bi-monthly magazine.
- List of publications of the Health Behaviour and Education Department, 1978-1983.

SERVICES:

Consultation, training, production of training material, evaluation.

ORGANIZATION: AIM-Tech

ADDRESS: P.O. Box 29285 Telephone: 592492
Nairobi
Kenya

CONTACT PERSONS: John Propts, Manager
Stephen Miller, Mechanical Engineer

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: International: Kenya, Sudan, Uganda, Tanzania

WORKING LANGUAGES: English, Swahili

ACTIVITIES: Provision is made of water supply systems in rural areas using mainly outside funds. The types of technology include: spring protection, gravity supply, pumped supply, hydraulic ram pumps and public standposts. Community involvement varies from one project to another. Some water supply systems are owned and maintained by the local church or school, some by the villages.
Local operators are trained on the job in the maintenance of the system during the installation of the water supply.

SERVICES: Information services.

ORGANIZATION: Institute of Cultural Affairs (ICA)
Country Office: Kenya

ADDRESS: P.O. Box 21679 Telephone: 567728
Nairobi Telex: 963-2273
Kenya Attn. Mr. R.G.J. Ballard
Ans. 22730 AFRIBROK
Cable address: ICANBI

CONTACT PERSON: Linda Alton, Area Director

TYPE OF ORGANIZATION: NGO, Community based

SCOPE OF ORGANIZATION: Kenya

WORKING LANGUAGES: English, Kiswahili, other local languages

ACTIVITIES: The organization is primarily involved in working with villagers and village leaders on comprehensive plans for community development. The work in a village starts with public meetings and community appraisals to assess the needs of the community and to develop plans to improve the conditions of life. Local committees are actively involved in the promoting, planning, and construction phases. One of the activities is to improve community sanitation by building latrines, dish racks, refuse pits, etc. Members of the community contribute labour to aid in the construction of the sanitation systems. The operating costs are financed by collective community funds and funds from outside organizations. The organization is also involved in the training of village women and men as Village Health Caretakers. The activities of the Village Health Caretakers include preventive health care and the promotion of village improvements. For these purposes training and educational materials have been produced and disseminated.

PUBLICATIONS: - Institute of Cultural Affairs brochure (brief general description of the work of ICA in Kenya)
- Development by the people: a case study of the work of the ICA in Machakos District, Kenya

SERVICES: Organization of workshops, seminars, demonstration visits.

- ORGANIZATION:** Rinya Integrated Rural Health Project
- ADDRESS:** P.O. Box 45872 Telephone: 331151
Nairobi
Kenya
- CONTACT PERSON:** Dr. S.O. Odede, Chairman and Project Director
- TYPE OF ORGANIZATION:** NGO, Community based
- SCOPE OF ORGANIZATION:** Sub-national
- WORKING LANGUAGES:** Luo, Kisii, Maasai, Swahili and English
- ACTIVITIES:** Rinya Integrated Rural Health Project is an interdisciplinary rural development concern, relying mainly on communal labour, service, material and financial contributions. The project originated as a curative Health Centre but is now also active in the field of preventive health care. As one of its activities the organization is involved in the provision of water supply and sanitation systems. The main sources of water are springs, hand-dug wells and rainwater catchment. Lifting technology includes handpumps and bucket and pulley. Distribution is by gravity and pumping. The types of sanitation technology include: pit latrines, waste water drainage, housing improvements, food protection, control of domestic animals and vector control. Community appraisals are conducted as part of the planning process. Community participation - especially of women - is promoted in all phases of the project through public meetings, the involvement of locally selected committees and community contributions in labour, materials and money. The operating costs are financed by collective community funds. Local people are trained for the position of promoter, community health worker, operator, technician or administrator. Training materials have been developed for community health educators. Educational materials on water, sanitation and the promotion of health have been developed for the communities.
- PUBLICATIONS:**
- Odede, S.O., Simple approach to education on water supply among peasant folks of Rinya community, progress report presented to the Governing Council, July 1982
 - Odede, E.A., Effects of education on child nutrition among rural women of Rinya, progress report presented to the Governing Council, August 1982
 - Maende, W., Reaction of rural youth of Rinya to technical education on latrine construction, progress report presented to the Governing Council, January 1983
- SERVICES:** Social studies, programme planning, training, education, information services, construction and maintenance.

ORGANIZATION: Institute of Cultural Affairs (ICA)
Country office: Korea

ADDRESS: C.P.O. Box 194 Telephone: 792-9688
Seoul 100 Telex: 23168 ANS:ATTKSY
Republic of Korea

CONTACT PERSON: Mr. Kang-Jin Lee, Programme Director

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Republic of Korea

WORKING LANGUAGES: Korean, English

ACTIVITIES: ICA Korea has two offices. The Seoul office has main responsibility for training courses and programme support. The Chung Ju office has responsibilities for local human development projects and expansion programmes. Working in the field of integrated rural development the organization is involved in providing water supply and sanitation systems. The main sources of water are hand-dug wells and drilled wells. The water is lifted by handpumps. Distribution is by pumping. Sanitation improvements include: septic tank latrines, solid waste refuse, waste water drainage, housing improvements, food protection and control of domestic animals. Community appraisals are conducted as part of the planning process. Community participation is promoted in all phases of the project through public meetings, the involvement of local committees, the active involvement of local women and community contributions in labour, materials and money. The operating costs are financed by collective community funds, government funds and funds from outside organizations. Local people have been trained as promoters and community health workers. Training materials for community health educators have been produced. General health education material and water and sanitation educational material have been developed for communities.

PUBLICATIONS:

- Guidebook for the renewal of village vitality. This guidebook contains five major sections: nutrition, sanitation, vitality maintenance system, funding and health education. It also includes a project phasing model. The guidebook can be obtained from the co-ordinating centre: ICA, 4750 N. Sheridan Road, Chicago, Ill. 60640, USA
- Newsletter: "New village voice"

SERVICES: Social studies, programme planning, training, education, development of training and educational materials, organization of workshops and demonstration visits.

ORGANIZATION: Plenty
Country office: Lesotho

ADDRESS: Ha Makoae Telephone: Maseru-24467
P.O. Box 21
Mount Mocoosi 750
Quthing District
Lesotho

CONTACT PERSON: Fernando Bermudes, Plenty Lesotho Director

TYPE OF ORGANIZATION: NGO, Community-based

SCOPE OF ORGANIZATION: Sub-national: Quthing district

WORKING LANGUAGES: English, Lesotho

ACTIVITIES: Plenty's projects supply technical assistance and materials on request of local people in the field of integrated rural development. Among other activities a spring fed water system (gravity supply) has been constructed and ventilated pit latrines and Vietnamese double-batch composting systems have been introduced. The community participates in the project activities through: public meetings, the involvement of local committees in the promoting, planning and construction phase, contributions in labour and money. The operating costs are financed by collective community funds and funds from outside agencies. Local promoters, operators, technicians and administrators are trained by the organization.

PUBLICATIONS: - Plenty News (free). To obtain this newsletter write to Plenty, 156 Drakes Lane, Summertown, TN 38483, USA

SERVICES: Social studies, training, organization of workshops and demonstration visits, construction and maintenance.

ORGANIZATION: FIKRIFAMA
(Christian Rural Development and Water Resources Program)

ADDRESS: B.P. 3875 Telephone: 40575
Antananarivo Telex: HILTON 22261
Madagascar

CONTACT PERSON: Gérard Rakotondrainibe, Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: French, English, Malagasy

ACTIVITIES: The organization's work in rural areas centres around primary health care, nutrition, training and education. As one of its activities the organization is involved in providing water supply systems. The main sources of water are springs, hand-dug wells, drilled wells, protection of water from tanks and rainwater catchment. The water is lifted by handpumps. Distribution is by gravity and pumping. Waste water drainage is included in the project activities. Community appraisals are conducted as part of the planning process. Community participation is promoted in all phases of the project by public meetings and the involvement of local committees. Community members contribute labour and materials to aid in the construction of the systems. The operating costs are financed by collective community funds, government funds and funds from outside organizations. Training courses are provided for personnel for system operation and maintenance.

PUBLICATIONS:

- Rakotondrainibe, G., Case study: water supply project in Ambohimangazafy, February 1982 (also available in French)
- Rakotondrainibe, G., Témoignages et propositions sur les problèmes d'adduction d'eau en milieu rural à Madagascar, June 1980
- Rakotondrainibe, G., Activity reports 1980, 1981 and 1982, also available in French

SERVICES: Programme planning, training, education, social studies, construction and maintenance.

ORGANIZATION: General Office of Health in Development
Lutheran Church Development Department

Address B.P. 880 Telephone: 25201
Antananarivo 101 Telex: H 1
Madagascar Cable address: B.P. 880

CONTACT PERSON: Mrs. Katharine Quanbeck, Assistant Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: Malagasy, French, English, local dialects

ACTIVITIES: The organization works in close cooperation with the Malagasy government health officers and the Lutheran Church Department of Agricultural and Water Systems Development. Village health workers, trained by the organization, channel requests for water from the villagers directly to the Church's water systems staff. This staff discusses with the villagers their stated water and sanitation needs and requests. In some instances sensitization has been taking place for many years before the village presents a request or articulates a need; in other villages only a short period of sensitization produces a request. The villagers, both men and women participate actively in all the phases of the project. The operating costs are financed by collective community funds. The main sources of water are springs, hand-dug wells, disinfection and sedimentation of water from the river and rainwater catchment. Distribution is by gravity. The types of sanitation technology include: latrines, housing improvements, food protection, control of domestic animals and vector control. General health education material for the communities and training materials for community health educators have been developed.

PUBLICATIONS:

- Publications on primary health education and on health education in relation to water supply and sanitation are under preparation in the Malagasy language.
- Newsletters in Malagasy language.

SERVICES: Social studies, programme planning, training, education, development of training and educational materials, organization of workshops and demonstration visits, information services.

ORGANIZATION: Peace Corps Malawi

ADDRESS: c/o American Embassy Telephone: 721611, 721845
P.O. Box 30016 Cable address: P.O. Box 208
Lilongwe Lilongwe, Malawi
Malawi

CONTACT PERSON: Dr. Annamarie G. Hayes, Peace Corps Director, Malawi

TYPE OF ORGANIZATION: Governmental, US aid agency

SCOPE OF ORGANIZATION: Malawi

WORKING LANGUAGES: English, Chichewa and Chitumbuka

ACTIVITIES: Peace Corps Malawi currently has volunteers (PCVs) serving as rural water engineers and community health workers. The PCV engineers are part of a US AID-supported self-help rural piped water project. Their duties include the design and construction of gravity fed piped water systems, supervision and training of technical field staff, and the design of working maintenance systems for completed projects. The community health workers are involved in the training of rural health volunteers in health education and environmental sanitation. Volunteers have initiated sanitation projects such as: shallow wells, ventilated pit latrines and washing slabs with funds received from the US Ambassador's Self-Help Fund. Some volunteers have developed health education materials for communities and training materials for the community health educators but these are in an unpublished form. Community appraisals are conducted as part of the planning process. Community participation is promoted in all phases of the project through public meetings and the involvement of local committees. Members of the community contribute labour, materials and money to aid in the construction of the water supply and sanitation systems.

SERVICES: Training, evaluation studies.

MALAWI

ORGANIZATION: The Polytechnic, University of Malawi

ADDRESS: Private Bag 303 Telephone: 632144
Chichiri
Blantyre 3
Malawi

CONTACT PERSON: Dr. G.M. Mhango, Vice Principal/Head of Mathematics and Science

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES: The university organizes a three years training course for public health inspectors. The training includes all types of water supply technology, the construction of latrines, sewerage systems, waste water drainage, refuse disposal and housing improvements. A training course in health education techniques, community participation and evaluation methodology is integrated into the programme. After qualification the students work in rural areas.
Evaluation of existing water supply and sanitation projects to determine the need for education. The following variables are measured: patterns of use, hygiene behaviour, environmental health knowledge, health impact and socio-economic impact.

SERVICES: Social studies, training in community education and organization of workshops. On a cost reimbursement basis.

ORGANIZATION: Centre de Recherche et d'Education pour la Santé Rurale (Centre for Research and Training in Rural Health)

ADDRESS: Kolokani
Mali

CONTACT PERSON: Dr. H. Balique, Senior Scientific Officer

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: Sub-National: Kolokani region, Mali.

WORKING LANGUAGES: French, Bambara.

ACTIVITIES: The organization is involved in the training of locally elected village health workers (in its centre) and of village leaders and newly literates (in the local literacy centres). Training includes the stimulation of self-improvements of water and sanitation by the whole community and by individual households.
The pilot project for the training of newly literates covered 36 villages and is linked to the programme of functional literacy. Projects are initiated in villages with a functional literacy centre. In a general meeting the newly literates answer a questionnaire on village health problems. In a second meeting the local needs are compared with the results of a medical survey and an action programme formulated to be implemented by the village health worker.

PUBLICATIONS: - G. Belloncle, H. Balique, A. Rougemont, Ph. Ranque, Vernacular Literacy Produces Good Health workers.
In: World Health Forum, 1, 1/2, pp. 67-71, 1981.

ORGANIZATION: Christian and Missionary Alliance (CAMA)
Country Office: Mali

ADDRESS: B.P. 19
Koutiala
Republic of Mali

CONTACT PERSON: Loyal Bowman, CAMA Relief Director for Mali

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Mali

WORKING LANGUAGES: English, French, Bambara

ACTIVITIES: The organization provides cash grants and technical assistance for rural water supply systems. The main sources of water are hand-dug wells and low level check weirs.
Public meetings are held to discuss the planning and construction of the facilities. Local committees are involved in the planning, construction and maintenance. Members of the community contribute labour, materials and money to aid in the construction.
General health education material and water and sanitation educational material have been designed. Community health workers use these materials to educate the communities.

PUBLICATIONS: - General health guide in Bambara

SERVICES: Organization of workshops and demonstration visits, information services, construction and maintenance.

ORGANIZATION: Latin American Institute of Educational Communications (ILCE)

ADDRESS: Apartado Postal 18862
Mexico 18, D.F.
Mexico

CONTACT PERSON(S):

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: International: Latin America

WORKING LANGUAGE: Spanish

ACTIVITIES: Production and distribution of general health education material (filmstrips) on water, sanitation and environmental health. The material aims at a better environmental health knowledge, changes in hygiene behaviour and conditions by individuals, households and communities.

SERVICES: Financial and technical assistance in the development of educational materials, distribution of educational materials.

ORGANIZATION: Unidade de Direcção de Abastecimento de Agua e Saneamento

ADDRESS: C.P. 2847 Telephone: 24102
Maputo Telex: 6521 HIDR MO
Mozambique Cable address: HIDRAULICA
MAPUTO

CONTACT PERSON: Manuel Alvarinho, Director

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: Portuguese

ACTIVITIES: Provision is made of water supply and sanitation systems in rural and urban areas. The types of water supply technology include hand-dug wells, drilled wells, hand-pumps, pumped supply, public standposts, house connections and water treatment. The types of sanitation technology include private pit latrines and sewerage systems. The organization's activities include:

- Creation of capacity at district level for the implementation of a shallow wells programme.
- Establishment and support of water companies to operate water supplies in the larger cities.
- Technical and logistic support to District Councils for operation of water supplies in smaller towns.
- Investment in major water supply and sewerage extension projects.
- Training of staff for the above activities.
- Technical support to low-cost sanitation programmes carried out by other bodies (City Councils, Ministry of Health etc.)

In the villages community participation takes place:

- in planning through joint decisions of community and agency in village selection criteria and through consultation of the community on well location,
- in implementation through labour contributions,
- in maintenance by village pump minders with help in repairs from mobile teams of pump mechanics. The village pump minders are remunerated by the community by a wide variety of mechanisms (produce of agricultural cooperatives, collection of cash, etc.)

The facilities are financed by the government (provincial investment budget) and owned by the Village Executive Councils.

PUBLICATIONS:

- Latrine Construction Manual, published by IDRC.

ORGANIZATION: Community Development Assistance Project (CDAP)

ADDRESS: U.M.N. Telephone: 22405
P.O. Box 126 Cable address: UMNEPAL
Kathmandu
Nepal

CONTACT PERSONS: CDAP Director,
Mr. Nawang Tenzing, Technician

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: Lalitpur District

WORKING LANGUAGES: Nepali and English

ACTIVITIES: CDAP is an integrated rural development project involved with non-formal education, tree planting, agricultural development, nutrition, food technology, rural industries and water supply and sanitation.

The organization provides water supply systems with the help of local manpower and stimulates self-financed improvements in sanitation. The types of water supply technology include: spring protection, gravity supply, public standposts, group and house connections. The types of sanitation technology include: private, galvanised, tin chute pit latrines and refuse disposal (compost pits).

Preparatory socio-cultural studies are undertaken to get an idea of the acceptance and use of the new facilities. Community participation is sought in all phases of the project. Local committees are specially involved in project planning and implementation. The facilities are owned by the users and maintained by village caretakers with the help of the implementing agency.

CDAP cooperates with a Community Primary Health Care Programme. Outside health educators and community representatives plan, implement and evaluate local health education programmes together. A school health education programme is linked to the project. Flash cards on pit latrines and water systems are used. Short training courses are provided for: 1) technicians and sanitarians in community participation, 2) promoters in non-formal education; 3) community health workers in health education and home visiting.

Evaluation studies are carried out to investigate the costs and cost-savings of participation, the functioning and use of the facilities, hygiene behaviour and health impact, socio-economic impact.

ORGANIZATION: Peace Corps Nepal

ADDRESS: Box 613 Telephone: 11692, 13875
Kathmandu
Nepal

CONTACT PERSON: Shivaji Upadhyay, Programme Officer, Rural Reconstruction

TYPE OF ORGANIZATION: Governmental, US volunteer aid agency

SCOPE OF ORGANIZATION: Nepal

WORKING LANGUAGES: English, Nepali

ACTIVITIES: As one of the activities in their integrated rural development programme, the organization is involved in the provision of water supply and sanitation through technical assistance. The community water supply project is part of a larger water supply programme run by the Nepal Ministry of Panchayat and Local Development and is funded and supported by UNICEF. Other participants include Dutch, Japanese and British volunteers. The main sources of water are springs and disinfection or sedimentation of water from the rivers. As lifting technology hydraulic rams are used. Distribution is by gravity and pumping. The sanitation improvements include pit latrines, composting and waste water drainage. Community appraisals have been conducted as part of the planning process. The community participates in the project activities through:

- public meetings to discuss the needs of the community and the construction, use and maintenance of the facilities;
- the involvement of local committees in the promoting, construction, acceptance and maintenance phase;
- contributions in labour.

The operating costs are financed by government funds and funds from outside organizations. Local people have been trained for the position of technician and personnel for system operation, repair and maintenance.

SERVICES: Training, construction, maintenance and repair (within Nepal)

ORGANIZATION: Swiss Organization for Technical Assistance (SATA)

ADDRESS: P.O. Box 113 Telephone: 21205
Kathmandu Telex: 2245 SATA
Nepal

CONTACT PERSON: Mr. H.A. Heijnen, Project Manager CWSS Pokhara

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: Western Development Region

WORKING LANGUAGES: English, Nepali

ACTIVITIES: SATA provides technical assistance, including project management, for the Community Water Supply and Sanitation project (CWSS) executed by the Regional Government. The project is part of a national programme for CWSS coordinated by the National Government and UNICEF.

The project implements rural water supply and sanitation projects covering between 500 and 2500 population each. The projects are commonly community initiated, and if approved by the government the costs of the project are borne by the government (15% in cash), the community (15-20% in labour and materials) and UNICEF (60-70% in materials and project technicians).

A social feasibility study is carried out before the project starts. The type of water supply technology focuses on spring protection, gravity supply and public standposts. The types of sanitation technology include: school/healthpost ventilated pit latrines, private latrines and waste water drainage to village gulleys or paddy fields.

Up till now roughly 120,000 people have been served.

Community participation:

- in planning in consultation with the community on source selection and siting of standposts and by community requests for sanitation in combination with a new water supply;
- in construction through contributions in labour (cash), and materials;
- in maintenance by a village maintenance worker with technical assistance and materials from the implementing government agency. The village maintenance worker is remunerated by the community in the form of food or cash.

After completion the facilities are transferred to the village water committee.

The project staff gives health information through personal contacts and a school sanitation education programme is linked to the project.

Training courses are provided for technicians, overseers and village maintenance workers in communication, motivation and sanitation education.

Educational material consists of flipcharts and books on sanitation in Nepali and English.

Existing water supply and sanitation projects have been evaluated to determine the need for maintenance.

PUBLICATIONS:

- Schramm, W. and Gurung, L.B., Proposal for a feasible maintenance and repair management system for the Western Development Region, Pokhara
- Strauss, M., CWSS Programme Western Development Region, Sanitation Handbook, Report on the period July 1981-June 1982, Pokhara, July 1982;
- A Policy for the Maintenance and Repair of CWSS Systems in Nepal, Report of the Conference held in Pokhara 6-11 October 1982. Part I: Maintenance. Ministry of Panchayat and Local Development, Kathmandu, November 1982;
- A Policy for Sanitation. Report of the Conference held in Pokhara 6-11 October 1982. Part II: Sanitation, Ministry of Panchayat and local Development, Kathmandu, November 1982;
- Standard Procedures for the Implementation of Rural Water Supply Projects. Extracts from Report of the Conference on the Rural Water Supply Programme held in Jhapa 21-26 September 1980. Ministry of Panchayat and Local Development, Kathmandu, December 1982.

The last three documents are available from UNICEF, P.O. Box 1192, Kathmandu, Nepal.

SERVICES:

Demonstration visits and information services. Free of charge.

ORGANIZATION: United Mission to Nepal

ADDRESS: P.O. Box 126 Telephone: 12668
Kathmandu Cable Address: UMNEPAL
Nepal

CONTACT PERSONS: Ms. Jeanette Hyland, Health Services Secretary
Mr. A. Schlorholtz, Economic Development Secretary

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Nepali

ACTIVITIES: Provision of water supply and sanitation in rural areas. The types of water supply technology involve: spring protection, gravity supply and public stand-posts. The types of sanitation technology include: private common pit latrines and compost refuse disposal. The organization is linked to agricultural projects and Primary Health Care. Up till now approximately 200,000 people have been served. Community participation, of men as well as women:

- in planning (community decisions on the location of taps, time schedule, funds) by committee meetings;
- in construction through labour and cash;
- in maintenance by the villagers with help in major problems from the agency water technician;
- in evaluation by means of community meetings and spontaneous interactions.

The facilities are owned by the community and partly financed by user fees weighted according to community decisions, partly by community funds. A village maintenance worker is remunerated by the community in kind or cash.

Health education is provided by health educators who give general information through personal contacts and local programmes. Attempts are made to adopt health education messages to local circumstances, and a school health education programme is linked to the project. Posters, brochures and flipcharts for illiterate target groups are developed. Brief training on the job is provided for technicians and local operators. A six-weeks institutional course with ongoing in-service training on the job is provided for community (health) workers.

Work is in hand to develop a hydraulic ram pump for local manufacture, suitable for use in drinking water schemes.

ORGANIZATION: SAWA - Werkgroep Waterbeheer

ADDRESS: Donkerstraat 17 Telephone: 030-331328
 3511 KB Utrecht Telex: 70890 SNM nl.
 The Netherlands

CONTACT PERSONS: Mr. Kees Kempenaar, Civil Engineer
 Mr. Bert Pijpers, Civil Engineer

TYPE OF ORGANIZATION: NGO, Non-Profit Organization

SCOPE OF ORGANIZATION: International: Guinea Bissau, Mozambique, Isles of
 Cape Verde, Nicaragua

WORKING LANGUAGES: English, Dutch, Portuguese, French, Spanish

ACTIVITIES: The organization provides consultancy services in water
 management and sanitation with an emphasis on training
 and transfer of know-how.
 The activities of the consultancy group include among
 others:

- Project identification studies for domestic water
 supply and integrated horticulture.
- Socio-economic feasibility study and design of
 community education and participation programme
 for an ongoing shallow well project in Southern
 Guinea-Bissau (150 wells/year).
- Consultancy services comprising feasibility studies,
 master planning and preparation of tender components
 for an urban project in the Republic of Cape Verde.
 The main components of the project are: stormwater
 drainage, rehabilitation and extension of the water
 supply and sewerage system, installation of public
 toilets and bathing facilities, waste water treatment
 and effluent re-use for irrigated horticulture, waste
 disposal.

SERVICES: Professional advisory services on research/studies
 project/programme development, institution building,
 training.

ORGANIZATION: African Regional Health Education Centre

ADDRESS: University of Ibadan Telephone: 62010, ext. 2739
 Faculty of Medicine Cable address: Unibadan
 Department of Preventive
 and Social Medicine
 Ibadan
 Nigeria

CONTACT PERSON(S): Joshua Adeniyi, Ph.O., Director

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: International: West Africa.

WORKING LANGUAGE: English

ACTIVITIES: Training of health educators (1 year) and post-graduate medicine or social science students (2 year) for (a) health education programme development, administration, evaluation, (b) training of community workers on health education and (c) health education research. The training includes community participation and education as a part of government projects for water and sanitation or as a means to stimulate self-improvements. Evaluation of communal toilet, bathing and laundry facilities in low-income urban areas, with community participation in construction and maintenance.

PUBLICATIONS:

- Ademuwagun, Z.A., Birth of the First Centre for Professional Preparation in Health Education in Africa. In: International Journal of Health Education, 19,3,1976, pp. 3-8.
- Ademuwagun, Z.A., The Ibadan Comfort Stations: An Experiment in Environmental Sanitation Health Education, Ibadan, ARHEC, 1975, 39p.

SERVICES: Training, research studies.

ORGANIZATION: Church of the Brethren Mission (CBM)
Country office: Nigeria

ADDRESS: Box 626 Cable address: Brethren,
Jos, Plateau State Jos, Nigeria
Nigeria

CONTACT PERSON: Owen Shankster, Project Manager

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: North Eastern Nigeria

WORKING LANGUAGES: English, Bura, Chibok, Hausa, Higi, Kilba, Whona and many other local languages

ACTIVITIES: The organisation is engaged in a rural self-help well digging programme. Technical assistance, equipment and supplies are provided for well construction. The villagers dig their own wells and buy their own bucket and rope. Once a year they clean out the wells. Local people have been trained to dig and cement the wells, to blast rocks and to supervise the work.

ORGANIZATION: Hydraulics Research Unit
University of Lagos

ADDRESS: Akoka Telephone: 800500
Lagos Cable address: UNILAG
Nigeria

CONTACT PERSONS: Dr. S.I.A. Ojo, Senior Research fellow
Dr. E.S. Oyegoke, Lecturer
Dr. O. Lafe, Lecturer

TYPE OF ORGANIZATION: University, Research Organization

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: English

ACTIVITIES/SERVICES: The Unit undertakes project identification studies, social feasibility studies and evaluation studies of water supply and sanitation projects. The main topics of the evaluation studies include: cost and cost-savings of participation, functioning of the facilities and environmental health knowledge.

ORGANIZATION: Lardin Gabas C.B.M. Rural Health Programme

ADDRESS: P.A. Garkida Via Yola Cable address: BRETHREN JOS
Gongola State
Nigeria

CONTACT PERSON: Stephen S. Tarfa, Director

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national: North-East Nigeria

WORKING LANGUAGES: Hausa, English

ACTIVITIES: The organization is primarily concerned with a Health Education Programme for rural populations in remote areas. The programme is designed on the principles of community development and include preventive health care and simple curative health care. The main activities of the programme are:

- people's organization
- training in health education for the prevention of (water related) diseases through the use of stories, dramas and songs
- immunization and treatment of simple ailments
- digging of wells and building latrines
- training in well digging
- housing improvements
- training of personnel for system operation, maintenance and repair.

So far, 355 village health workers from 118 villages have been trained over the past 8 years and 400 wells have been dug in 2 years.

Community motivation to participate in the planning, organization and administration of their own primary health care services is through public meetings and the involvement of local committees. Community members contribute labour and materials to aid in the construction of the facilities. Operating costs are funded by outside organizations.

PUBLICATIONS:

- J.S. Horning, History and development of Lardin Gabas C.B.M. Rural Health Programme
- D. Hilton, Health teaching in West Africa, MAP International, Monograph no. 1, Wheaton, Ill., USA, 1981

SERVICES: Training, health education, immunization, technical assistance, programme planning, demonstration visits, information services.

ORGANIZATION: Department of Anthropology, Quaid-i-Azam University

ADDRESS: P.O. Box 1090 Telephone: 29913
Islamabad Cable address: University
Pakistan

CONTACT PERSON: Dr. Mohammad A. Rauf, Professor and Chairman

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Urdu

ACTIVITIES: Identification study on: potable water use patterns in rural areas, water related problems and diseases, and plans of various communities to improve water supply through handpump installations. Evaluation of rural drinking water supplies on water use patterns, health impact and socio-economic impact.

SERVICES: Social research

ORGANIZATION: Departamento de Salud Ambiental, Ministerio de Salud, Panamá, (Dept. of Environmental Health, Ministry of Health, Panama)

ADDRESS: Apartado 2048 Telephone 25-3329
Panama
1 Panama

CONTACT PERSON: Ing. Dario Delgado, Head of Environmental Health

TYPE OF ORGANIZATION: Government

SCOPE OF ORGANIZATION: National

WORKING LANGUAGE: Spanish

ACTIVITIES: Provision of piped water supply and sanitation facilities in rural areas using 50% loan funds and 50% user/community contributions. The communities own and maintain the water facilities with guidance from the Department. A Community water board pays an operator \$ 50 per month. Technicians and promoters are trained in a six-month course. Local operators are trained during the period of construction.

Instructional booklets have been prepared on the construction of piped water supplies, latrines and disposal of solid wastes, and on the responsibilities of community water boards.

Both pumped and gravity supplies are constructed, and also dug and drilled wells and spring protection. The piped supplies have household connections.

Both communal and individual latrines are constructed, and also drainage systems.

A total of 1000 communities with 585,000 people have been provided with water, and 2,500 persons trained. The programme is integrated with Primary Health Care. Work has also been undertaken in marginal urban settlements but there have been problems of participation and of acceptance of the latrine programme: a study is to be undertaken on the latter.

ORGANIZATION: International Human Assistance Programs, Inc. (IHAP)
Country office: Papua New Guinea

ADDRESS: P.O. Box 1119 Telephone: 258470
Boroko, NCD Cable address: HUMANAID,
Papua New Guinea BOROKO

CONTACT PERSON: Brian J. Walker, Country Director

TYPE OF ORGANIZATION: NGO, foundation

SCOPE OF ORGANIZATION: Papua New Guinea

WORKING LANGUAGES: Tok Pidgin, Motu, English

ACTIVITIES: The organization is directly involved in the "selfhelp" installation of rural water supply systems. The main sources of water are springs, hand-dug wells, drilled wells, rainwater catchment and desalination of sea water. Lifting technology includes handpumps and diesel pumps. Distribution is by gravity. The organization works through the provincial governments. Community appraisals are conducted as part of the planning process. Community participation is promoted in all phases of the project through public meetings, the involvement of locally selected committees and community contributions in labour and materials. Local people are trained in village system maintenance for which training materials have been developed. The operating costs of the water supply systems are financed by user fees, collective community funds and government funds. Post project evaluations are carried out in cooperation with the beneficiaries and district level government officials. The work of the organization forms part of a larger programme on Primary Health Care, Agricultural Development, Nutrition and Education.

SERVICES: Project planning, implementation assistance, evaluation and post project maintenance training.

ORGANIZATION: Human Settlements Service Center

ADDRESS: Besao Mountain Province Cable address: BESAO,
Philippines MOUNTAIN PROVINCE,
PHILIPPINES

CONTACT PERSON: Manuel C. Ano, Human Settlements Officer

TYPE OF ORGANIZATION: Voluntary organization under the Ministry of Human Settlements

SCOPE OF ORGANIZATION: Sub-national: Besao Mountain Province

WORKING LANGUAGES: Kankanaey (local dialect), Ilocano, Tagalog and English

ACTIVITIES: As one of its activities in the field of rural development the organization provides water supply and sanitation systems by means of equipment and technical assistance. The main sources of water are springs and protection of water from pond/tank. Distribution is by gravity. The types of sanitation technology include sealed toilet systems, solid waste disposal, waste water drainage, housing improvements, food protection and control of domestic animals. Community appraisals are conducted as part of the planning process. Community participation of men and women is promoted in all phases of the project through public meetings, the involvement of locally selected committees and community contributions in labour, materials and money. Training courses are provided for promoters, community health workers, operators, technicians and administrators. Training materials for community health workers have been developed; general health education material, and water and sanitation promotional material has been produced for communities.

SERVICES: Social studies, programme planning, institution building, training, education, development of training and educational materials, organization of workshops and demonstration visits, information services, construction and maintenance.

ORGANIZATION: International Institute of Rural Reconstruction (IIRR)

ADDRESS: Silang Telephone: 582659
Cavite Telex: 27886 IRR/PH
Philippines 2720 Cable address: IIRING Manila

CONTACT PERSON: Dr. Antonio C. de Jesus

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: International

WORKING LANGUAGE: English

ACTIVITIES: Socio-economic feasibility study on how to enable a community to plan, build and maintain their own hydraulic ram pump for village water supply. Planning and implementation of an ongoing health education and community participation programme for the introduction of water-seal latrines in concentrated rural settlements. Training of fieldworkers in project planning, implementation and evaluation. Project initiation is linked to a worm infestation study. Surveys, demonstration visits and models are used for adaptation to local needs. Members of local associations are trained in technical and educational tasks. Follow-up visits are paid for total coverage, continued use and health impact evaluation.

PUBLICATIONS:

- Yen, Y.C.J., Environmental sanitation, immunizations, in H.B. Price, (ed.), Rural Reconstruction, a Manual for Field Workers, International Institute of Rural Reconstruction, Silang, Cavite, 1967.
- Feliciano, G.M., Flavier, J.M., Strategy of Change in the Barrio: A Case of Rural Waste Disposal, in D.Lerner, W.Schramm, (eds.), Communication and Change in the Developing Countries. East West Center Press, Honolulu (1967), pp. 279-288.
- Rural Reconstruction Review, Annual Journal of IIRR, Issue 1980 on evaluation of rural water supply project.

SERVICES: Technical assistance in programme development, implementation, training, studies/research.

ORGANIZATION: Rural Waterworks Development Corporation

ADDRESS: Vibal Publishing House Building Telephone: 951229
865 EDSA corner Times Street
Diliman, Quezon City
Philippines

CONTACT PERSONS: Pedro G. Dumol, General Manager
Angel A. Alejandrino, Assistant General Manager

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Tagalog

ACTIVITIES: The organization is involved in stimulation of self-improvements in community water supply in rural and urban areas. The types of water supply technology include: spring protection, hand-dug wells, drilled wells, gravity supply, pumped supply, public standposts, group connections and house connections. Up till now roughly 18,000 communities have been served. In the project planning, joint decisions of community and agency are taken on appropriate water supply facilities to be installed by means of community assemblies attended by the prospective users. User households contribute at least 10% of the total project costs in cash or kind. The facilities are owned and maintained by the members of the Rural Waterworks and Sanitation Association (RWSA). The operating costs and remuneration of village workers are financed by user fees, flat or weighed according to consumption. Evaluation studies are carried out with the help of the community to assess the functioning of the facilities, payments and patterns of use. Special attention is given to involve women in all phases of the project. Training and health education is included in the programme. Outside health educators develop locally adapted programmes and involve community representatives in the implementation. Promoters are trained in rural water supply programme development through a full-time institutional course of one week. The organization is also involved in the development and distribution of manuals.

PUBLICATIONS: - Manuals on design, programme implementation, construction, operation, maintenance and management of rural water supply systems.

SERVICES: Programme development, implementation, training, institution building, organization of workshops and demonstration visits, information services.

ORGANIZATION: Water Resources Center

ADDRESS: University of San Carlos Telephone: 8-31-02
 Technology Center Telex: 48000 Cebu PM
 Talamban Cable address: STEYL CEBU
 Cebu City 6401
 Philippines

CONTACT PERSON: Fr. Herman van Engelen, SVD, Director

TYPE OF ORGANIZATION: NGO, University affiliated

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Visayan, Tagalog

ACTIVITIES: The organization's work in water supply and sanitation in rural, periurban and urban areas is part of a larger programme on training, education and water resources consultancy. Technical assistance and materials for education and training are provided. The main sources of water are springs, hand-dug wells, drilled wells and rainwater catchment. Lifting technology includes handpumps and electric pumps including photovoltaic-powered pumps. Distribution is by pumping and piping. Sanitation improvements include excreta composting and waste water drainage. Community appraisals have been conducted as part of the planning process. Community participation is promoted in all phases of the project through public meetings, the involvement of local committees, the involvement of local women and community contributions in labour and materials. The operating costs are financed by user fees and collective community funds. Local people have been trained as promoters, personnel for system operation, repair and maintenance, technicians and administrators. Training materials on system operation, repair and maintenance have been developed. Water and sanitation educational materials have been designed. Evaluation studies are done by the Office of Population Studies of the University of San Carlos. Up to the moment 250 handpumps have been installed for 35,000 people. All pumps are operational; 90% of the installations are free from E. coli without the need of chlorination. Advisory services have covered another 50,000 people.

PUBLICATIONS:

- "Tubig sa Atong Palibot" (Water in your own place), booklet on water and sanitation education
- Handpump Installation Manual
- Rob Swart, Bob Smulders, Disposal of Stormwater and Wastewater in Cebu, Philippines, 2 volumes
- Smet, J.E.M., Negenman, A.J.H., Shallow Well Control on a Tropical Limestone Island, Mactan, Lapulapu City, Philippines

- Fredeswinda Bonotan-Dura, Appropriate Drainage and Sewerage Systems for a Section of Cebu and Mandaue
All these publications are available from the University of San Carlos, Cebu City, Philippines

SERVICES:

Programme planning, training, education, organization of workshops and demonstration visits, construction, maintenance and repair.

ORGANIZATION: Compagnons Fontainiers Ruandais
COFORWA, A.S.B.L.

ADDRESS: Nyakabanda
B.P. 53
Gitarama
Ruanda

CONTACT PERSONS: Mr. Jean Baptiste Nkundabatware, First Secretary
Mr. Sylvain Bourguet, Promotor

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: French, Ruanda

ACTIVITIES: The organization is involved in providing water supply systems by spring captation and gravity supply in rural and periurban areas. Public meetings are held to discuss the needs of the community, the use, maintenance, financing and management of the water supply systems and the need for training and education of local people. Community members contribute labour, materials and money to aid in the construction of the systems. User committees are created in charge of management, maintenance and collection of user fees. Local people have been trained as promoters, personnel for system operation and maintenance, and as administrators. Training materials on system operation and maintenance have been produced. The organization's work in water supply is a part of a larger programme on infrastructural improvements.

SERVICES: Training and education (in Ruanda)

ORGANIZATION: International Development Research Centre (IDRC)
Regional Office: Asia-IDRC-Health Sciences Division

ADDRESS: P.O. Box 101 Telephone: 2351344
Tanglin Telex: RS 21076 SINIDRC
Singapore 9124 Cable address: IDRECENTRE
Republic of Singapore

CONTACT PERSON: Lee Kam Wing, Programme Officer

TYPE OF ORGANIZATION: Governmental, Canadian aid agency

SCOPE OF ORGANIZATION: Regional Branch: Asia

WORKING LANGUAGE: English

ACTIVITIES: The IDRC-Health Science Division-Asia is actively involved in the development of water and sanitation projects in rural and periurban areas by means of cash grants, equipment, supplies, research and materials for education and training.
The main sources of water are hand-dug wells, protection of water from pond/tank and rainwater catchment. Handpumps are used as lifting technology. Sanitation improvements include latrines and excreta composting. Community appraisals have been conducted as part of the planning process. The community participates in the project activities through:

- public meetings;
- the involvement of local committees in the promoting, construction, acceptance and maintenance phase;
- contributions in labour in the construction phase.

The operating costs are financed by user fees and government funds.
Local people have been trained as promoters, community health workers, personnel for system operation and maintenance, and technicians. Training materials on system operation and maintenance have been developed. Water and sanitation educational materials for communities have been designed.

PUBLICATIONS: - Village Handpump Technology, Research and Evaluation in Asia

SERVICES: Programme planning, training, education, development of training and educational materials, organization of workshops and demonstration visits, information services, financing.

ORGANIZATION: Environmental and Development Agency

ADDRESS: P.O. Box 62054 Telephone: 834-1905
Marshalltown 2107
South Africa

CONTACT PERSONS: Dan Mogale and Nicholas Swan, Water Supply Team

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English and Isixhosa

ACTIVITIES: Small scale rural community water supply projects by stimulation of self-financed improvements in water supply. The types of water supply technology include: spring protection, drilled wells for which hand drilling equipment has been developed and constructed, hand irrigation pumps, water reservoirs. The type of sanitation technology includes ventilated pit latrines.

The organization cooperates with other field projects and community groups on request. Up till now roughly 20 communities have been served.

Community participation, especially of women:

- in planning (decision-making in type of project, siting of project, choice of technology, organization of work, funding) through discussions and in meetings;
- in construction through labour, in contributing cash (where necessary and possible) and in decision-making;
- in maintenance by community groups;
- in evaluation by means of feedback and discussion in meetings.

During the period of construction the user participants are trained on the job in spring protection, reservoir construction, etc.

The facilities are used as well as owned by a community group or the whole community. The facilities are financed by flat user rates for hand irrigation pumps in community gardens and by community funds, e.g. for materials for spring protection. More expensive projects e.g. boreholes are financed by an outside organization.

Local health education programmes are provided by outside health educators in close cooperation with community delegates.

PUBLICATIONS:

- People's Workbook published by EDA, 1981, available from EDA, 560 pages, information to help rural people organize their communities and improve their lives. Chapters on agriculture, water, health, legal rights, working in groups and buildings;
- Occasional publications and Field Reports of EDA Village Workers.

ORGANIZATION: The Valley Trust

ADDRESS: The Valley of a Thousand Hills Telephone: 031-751930
P.O. Box 33
Botha's Hill
Natal 3660
South Africa

CONTACT PERSONS: Dr. I. Friedman, Community Medical Officer
Mr. C. Mann, Administrative Director

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: International: Kwazulu, Cape Province, Transkei, Natal,
Transvaal, Botswana, Namibia, Lesotho

WORKING LANGUAGES: English, Zulu

ACTIVITIES: Stimulation of self-improvements in community water supply and sanitation facilities in rural areas. The type of water supply technology include: spring protection, reservoirs, piped gravity supply, shallow wells, handpumps, rainwater collection in ferrocement tanks. The types of sanitation technology include private ventilated pit latrines and buried seepage drums in fish ponds. Up till now roughly 50,000 people in 6 communities have been served. Community participation (through water committees and tribal development committees) is sought in all phases of the programme. Health education has been integrated into the programme by voluntary community health workers who adapt health education programmes to local circumstances. Health education and community educational material is produced and distributed. Brief training (one week to one month) is provided for technicians, nurses and community health workers. The community participates in the monitoring of the projects. Main evaluation topics are: user satisfaction, hygiene behaviour and health impact. Other fields of activities of the organization include: primary health care, nutrition education, agricultural extension, and appropriate technical assistance.

PUBLICATIONS:

- H.H. Stott, The Valley Trust: A Socio-Medial Experiment, South African Medical Journal, 43, 1968, pp. 1115-1118.
- H.H. Stott, The Valley Trust Socio-Medial Project for the Promotion of Health in a Less Developed Rural Area, University of Edinburgh, 1976.
- Annual Reports 1953 to 1982
- Dr. David Whittaker, Community Health Care: Some Points from the Valley Trust

SERVICES: Social research, project development, implementation training, institutional building, production of educational material and organization of workshops.

ORGANIZATION: Sri Lanka Society for Rural Reconstruction

ADDRESS: 70, Punkamkulam Road Cable address: EKIMINI, Jaffna
Columbuthurai
Jaffna
Sri Lanka

CONTACT PERSON: P.K. Ponnampalan, Director

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national, Northern regions

WORKING LANGUAGES: English, Tamil, Sinhalese

ACTIVITIES: The organization is involved in stimulation of self-improvements in community water supply and sanitation facilities in rural areas. The types of water supply technology include hand-dug wells, handpumps, public standposts, rainwater collectors and water treatment. Sanitation improvements include private latrines with washing facilities.

Identification studies are carried out as part of the planning process for projects. The collected data serve to facilitate community discussions how to improve the water and sanitation situation. The community participates in all phases of the projects through monthly meetings, informal interactions and contributions in labour and materials. The facilities are owned by the communities. Financing is through user fees with support from outside organizations. Health education is integrated into the projects through outside health educators and local community workers. A school health education programme is linked to the projects.

Training courses are provided for:

- sanitarians: a full time institutional course of 12 weeks, followed by on the job training for 12 weeks.
- promoters/community organizers: a full time institutional course of 52 weeks, followed by on the job training for 12 weeks.
- community health workers: a full time institutional course of 12 weeks, followed by on the job training for 12 weeks.

Some additional materials on health and village development have been designed and produced in English.

ORGANIZATION: Mayom Primary Health Care Project

ADDRESS: c/o Sudan Council of Churches
P.O. Box 469
Khartoum
Sudan

CONTACT PERSON: James Roger Schrock, Field Coordinator

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: Western Nuer Area

WORKING LANGUAGES: English, Arabic, Nuer

ACTIVITIES: The organization is involved in providing hand-dug wells with handpumps and Ventilated Improved Pit Latrines in rural areas by means of equipment, supplies and technical assistance. Community appraisals are conducted as part of the planning process. Community participation is promoted through public meetings and the involvement of local committees. Members of the community contribute labour, materials and money to aid in the construction of the facilities. The operating costs are financed by collective community funds. Local promoters and personnel for system operation and maintenance have been trained. The organization's work in water supply and sanitation is part of a larger programme on Primary Health Care. Materials have been designed to educate the community about health related to water and sanitation.

SERVICES: Organization of workshops and demonstration visits.

ORGANIZATION: Department of Social and Economic Geography
University of Lund

ADDRESS: Sölvegatan 13 Telephone: 046/108410
22362 Lund
Sweden

CONTACT PERSONS: Olof Nordström, Associate Professor
Ingvar Andersson

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: International: Africa (particularly Tanzania)

WORKING LANGUAGES: English

ACTIVITIES: Stimulation of self-improvements in Community Water Supply in rural areas in Tanzania (Kilimanjaro, Mwanza, Shinyanga and Singida regions). The types of technology include: hand-dug, hand-drilled and machine-drilled wells, pumped and piped water supply with house/yard connections. Socio-economic feasibility studies are carried out before the programmes start. Community Participation is sought in all phases of the programme. For this a community participation and education programme has been developed. Health education has been integrated into the programme by health educators who give general health information through personal contacts. Health education messages are adapted to local circumstances. Local operators are trained on the job.

PUBLICATIONS:

- Andersson, I., Hannan-Andersson, C., Domestic Water Supplies, a Vital Component in Tanzania's Rural Development: A Consumer Oriented Study of Selected Water Schemes in Four Regions, Progress Report, 15-1-1981, Department of Social and Economic Geography, University of Lund, Lund, Sweden, 32 pp, bibl, ann.
- Ingvar Andersson and Carolyn Hannan-Andersson, Pilot study of water supplies in Lembeni Ward Mwanza District, Kilimanjaro region, a preliminary report from fieldwork, August 1981
- Ingvar Andersson, Improvement of traditional sources: a realistic alternative, Paper presented at a seminar held in Linköping, Sweden, May 29 to June 4, 1983
- Carolyn Hannan-Andersson, The ideal vs the reality: health benefits of improved water supply, how to bridge the gap?, Paper presented at a seminar held in Linköping, Sweden, May 29 - June 4, 1983

SERVICES: Studies/research, technical assistance to project/programme development.

ORGANIZATION: Community Development Trust Fund of Tanzania

ADDRESS: P.O. Box 9421 Telephone: 31471/2
Dar es Salaam
Tanzania

CONTACT PERSON: Patricia Runanira, Information Officer

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English and Swahili

ACTIVITIES: The organization cooperates with villagers and local government by providing funds for 'self-help' projects to raise the standards of living in the rural areas. The activities include the provision of water supply: shallow wells, handpumps, gravity supply, pumped supply and public standposts. Community participation is sought in all phases of the project. The facilities are owned by the community. Village centres are used for health education classes where villagers get information on water related diseases, preventive measures, nutrition, etc. The organization distributes a newsletter on water supply and self-help in Kiswahili. Evaluation studies are carried out to assess the functioning of facilities, hygiene behaviour, user satisfaction, socio-economic impact and distribution of projects.

PUBLICATIONS: Annual Report and Newsletters both in English and Swahili. Free of charge.

SERVICES: Institution building for community participation and organization of demonstration visits.

ORGANIZATION: Institute of Resource Assessment (IRA, formally BRALUP)

ADDRESS: University of Dar es Salaam Telephone: 49030
P.O. Box 35097
Dar es Salaam
Tanzania

CONTACT PERSON: Prof. Adolpho Mascarenhas, Research Director

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English, Swahili

ACTIVITIES: The organization is involved in socio-economic feasibility studies and appraisals for community participation and education in the national programme for rural drinking water supply. Evaluation studies have been carried out on functioning of systems, patterns of water use, user satisfaction and socio-economic impact.

PUBLICATIONS:

- Kreysler, J., Uhuru na Maji: Health, Water Supply and Self-Reliance in Mayo Village, BRALUP Research Paper No. 3, Dec. 1968.
- Tschannerl, G. and Mujwahuzi, M., Impact of Rural Water Supply: Eight Self-help Schemes in Arusha, Masai and Lushoto Districts, BRALUP Research Paper No. 37, May 1975.
- Stahl, M., Sachak, M. and Nkusa, G., A Socio-Economic Study of Water-Related Problems in Northern Njombe, BRALUP Research Paper No. 54, 1978.
- Mujwahuzi, M., A Survey of Rural Water Supply in Dodoma District, BRALUP Research Paper No. 57, 1978.
- Bantje, H., A Water Consumption Survey in Mbezi Village, Dar es Salaam Region, BRALUP Research Report No. 30, Sept. 1978.
- Bantje, H., Sociological Aspects of Improved Water Supply in Coast Region, BRALUP Research Report No. 31, June 1978.
- BRALUP: Socio-Economic Aspects of Water Master Plan of Rukwa Region, 1981
- IRC/BRALUP, Village Water Supply and Community Participation in Tanzania, Report of a National Workshop held in Dar es Salaam, Tanzania, July 14-16, 1981.
- Andersson, Ingvar, Wells and handpumps in Shinyanga region, Tanzania: level of service from small scale water supplies, November 1982 (Obtainable outside Tanzania from IRC)

SERVICES: Studies/Research, Organization of Workshops.

ORGANIZATION: Ndirima People's Development Co., Ltd.

ADDRESS: P.O. Box 778 - Songea
Ndirima - Songea
Tanzania

CONTACT PERSON: Rev. Gervasius F. Augustinus K.M. Ntara,
Manager-in-chief

TYPE OF ORGANIZATION: NGO, church-affiliated

SCOPE OF ORGANIZATION: Sub-national

WORKING LANGUAGES: English, Swahili, German, Kirundi, Chiwemba, Zulu

ACTIVITIES: The organization is involved in providing water supply systems in rural areas as part of an integrated development programme. The main sources of water are springs from mountains or rivers. Distribution is by gravity. Public meetings are held to involve the community in initiating and implementating the project. Community appraisals are conducted as part of the planning process. The community contributes labour to aid in the construction of the water supply systems. Local committees are involved in the construction and acceptance of the facilities. Local people are trained for system operation, repair and maintenance by Regional Officers.

PUBLICATIONS: Technical reports, progress reports and administrative reports. Available from: The District Water Engineer, EREA Commissioner's Office, Water Supply Department (W), P.O. Box 481, Songea, Ruvuma Region, Tanzania.

ORGANIZATION: Tanzanian -Australian- Water Development Project

ADDRESS: P.O. Box 365 Telephone: 272
Singida
Tanzania

CONTACT PERSON: G.T. Roberts, Project Manager

TYPE OF ORGANIZATION: Commercial

SCOPE OF ORGANIZATION: Sub-national: Singida Region

WORKING LANGUAGES: English, Swahili

ACTIVITIES: The organization is primarily concerned with the provision of shallow wells fitted with handpumps under the general direction of the Regional Water Engineer, Singida Region, Ministry of Water and Energy. Programmes of work in the provision of water supply are prepared under the National Project, and from regional requests prepared by the Regional Development Director. Village communities are involved from the outset in a sociological and topographic survey of each village. Meetings are held with village leaders and government officials and the advice of residents is sought in the most beneficial location for wells before hydrogeological surveying begins. At this stage also, the village is asked to select two attendants (preferably one male and one female) for each well site, to be trained in care and maintenance.

During construction villagers provide self-help labour, and assistance with the provision of local materials such as sand and gravel. After completion of each well local users are instructed in upkeep of the well site and pump to reduce the risk of pollution and ensure the long life of the facility. The organization provides repair and maintenance facilities and conducts a wide variety of training courses concerned with water supplies built during an earlier phase of the Project using windmills, deep well pumps and diesel engines. Plans are in hand to organize a training course in simple pump repair for one or two persons in each village.

SERVICES: Social studies, training, assistance in maintenance and repair.

ORGANIZATION: Mahidol University,
Faculty of Social Sciences and Humanities.

ADDRESS: 420/1 Rajvithi Road
Bangkok 4
Thailand

CONTACT PERSON: Dr. Thavitong Hongvivatana, Director

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: Thai and English

ACTIVITIES: Research study on knowledge, perception and behaviour
of malaria prevention.
Research study on attitudes, practice and needs
towards drinking water and sanitation: sociological
investigations.

PUBLICATIONS:

- Hongvivatana, T., Leerapan, P., and Smithisampan, M.,
An Observational Study of DDT Insecticide Spraying
in a Rural Area of Thailand. Technical Report
Series no. 2, Medical Social Sciences Programme.
Mahidol University, 1981.
- Hongvivatana, T., Denduong, S., and Srigernyuang, L.,
An Evaluative Review of PHC Programme in Thailand.
Technical Report Series no. 3, Medical Social
Sciences Programme, Mahidol University, 1981.
- Hongvivatana, T., Hoontrakul, S., Illness Behavior
of Patients at a Malaria Clinic in Bor Ploi
District, Kanchanaburi Province, Department of
Social Sciences and Humanities, Mahidol
University, 1982.

SERVICES: Research for policy development; national and
international workshops and seminars, training on
policy-evaluative research methods and project
planning.

ORGANIZATION: Forage Villageois pour l'Eau Potable (FVEP)
(Village Drilling for Drinking Water)

ADDRESS: B.P. 38 Telephone: 400086
Notsé Cable address: B.P. 79
Togo Atakpamé, Togo

CONTACT PERSON: John Peebles, Business Adviser

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: Région des Plateaux

WORKING LANGUAGES: French, English, Ewe, Ana, Akposso, Tan

ACTIVITIES: The organization is involved in providing hand drilled and machine drilled wells in rural areas. The water is lifted by handpumps. Funding comes from outside organizations.
Community participation is promoted in all phases of the project through public meetings and the involvement of local committees. Local women are actively involved in promoting water activities, training, education, and in acceptance of the new facilities. Labour and money are contributed to aid in the construction of the wells. The operating costs are financed by collective community funds and funds from outside organizations. Local people have been trained to work in the water supply projects. Training is provided for: promoters and educators, personnel for system operation and maintenance, managers and administrators. The organization is entirely staffed by Togolese people.

SERVICES: Demonstration visits

ORGANIZATION: Ministry of Health

ADDRESS: Nuku'alofa Telephone: 21200
P.O. Box 92 Cable address: Minheagatapu
Tongatapu
Tonga
(South Pacific)

CONTACT PERSON: Mr. Salesi Finau, Senior Health Inspector

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: English and Tongan

ACTIVITIES: Provision of water supply in rural and urban areas, using outside funds and stimulation of self-financed improvements in water supply and sanitation. The types of water supply technology include: spring protection, hand-dug wells, drilled wells, rainwater collection, water treatment, group as well as house connections. The types of sanitation technology include: private and communal latrines with washing facilities, waste water drainage, refuse disposal, housing improvements and vector control. Project identification studies and evaluation studies are carried out to identify (social) problems and check community involvement. Community participation,
- in planning through meetings of the water committee;
- in construction through labour and cash contributions;
- in maintenance by the villagers with the help from the Public Health Division.
Much attention is given to the health education component. General health information is distributed through mass communication channels; health educators give information through personal contacts and local health education programmes.
Brief training (on the job) is provided for (1) technicians for the installation of pumps and water-sealed toilets, (2) community health workers in environmental health, and (3) local operators in operation and management.

SERVICES: Development of participation and education programmes, institution building, training, production of educational and training materials, organization of workshops, information services. Free of charge.

ORGANIZATION: La Fondation pour le Développement Communautaire (FDC)
Country office: Tunisia

ADDRESS: 6140 Makthar Telephone: 84
Tunisia Telex: 13379 TN CAMBTUN
c/o RD/USAID ATTN: FDC

CONTACT PERSON: Willet Weeks, Director

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: Tunisia

WORKING LANGUAGES: French, Arabic (English)

ACTIVITIES: As one of its activities in the field of integrated rural development the organization is involved in providing water supply systems in rural areas. The main sources of water are springs and hand-dug wells. Powered pumps are used for lifting and distribution of water. The provision of Vietnamese composting latrines is included in the programme. Community appraisals are conducted as part of the planning process. Community participation is promoted in all the phases of the project by public meetings and the active involvement of women. Community members contribute labour, materials and money to aid in the construction of the facilities. The operating costs are financed by special subscriptions, government funds and funds from outside organizations. Local people have been trained as promoters, administrators and personnel for system operation and maintenance.

SERVICES: Organization of workshops and demonstration visits.

ORGANIZATION: Euro Action Acord

ADDRESS: P.O. Box 280 Telephone: 59495, 33878
Kampala Telex: 61119 ACORD
Uganda

CONTACT PERSONS: Stephen Thorne, Programme Coordinator
Dr. Ivome Rizzo, Medical Advisor
Dr. René Lavigueur, Medical Advisor

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: International. Community water supply programme in the Northern region of Uganda

WORKING LANGUAGES: English, French

ACTIVITIES: The organization is involved in stimulation of self-improvements in community water supply in rural areas. The types of water supply technology include: spring protection, hand-dug wells and bucket and pulley. The project is linked to a programme for Primary Health Care and agricultural development. Preliminary project identification studies are undertaken concentrating on the needs and willingness of the people to improve water sources by community action. Community participation takes place:

- in planning, through consultation of the community on site selection, local materials available, etc. by means of field visits and interviews;
- in construction through contributions in labour, materials and funds organized by local committees/chiefs;
- in evaluation through consultations with PHC workers and health extension agents.

The facilities are owned and maintained by the participating households. Health education is an integrated part of the programme. Health educators give general education through personal contacts. A school health education programme is being linked to the project. Village health workers are trained to develop local education programmes. They are trained on the job for 2 weeks and attend monthly refresher workshops.

PUBLICATIONS: Annual Progress Reports 1981-83, available from: Euro Action Acord, Francis House, Francis Street, London, United Kingdom.

SERVICES: Funding of and technical assistance in social studies, programme development, implementation and training.

ORGANIZATION: Teaching Aids at Low-Cost (TALC)

ADDRESS: P.O. Box 49
St. Albans
Herts. AL1 4AX
United Kingdom

CONTACT PERSON: Ms. Pat Harman

TYPE OF ORGANIZATION: NGO, Foundation.

SCOPE OF ORGANIZATION: International

WORKING LANGUAGE: English

ACTIVITIES: Distribution of health education material and training material for health workers, including water and sanitation.

PUBLICATIONS:

- Communication in Health, Ways in Which a Health Worker May Improve Communication (24 slides).
- Helminths - those of Importance in Human Disease (24 slides).
- Communication in health-ways in which a health worker may improve communication (24 slides)
- Diarrhoea management - the practical application of recent advances in the management of a killing disease (24 slides)
- Guinea worm - the clinical picture, natural history, management and prevention of this debilitating condition (24 slides).

 A list of the materials distributed is available on request.

ORGANIZATION: Compassion International
Country Office: Haiti

ADDRESS: c/o Missionary Flight Telephone: Haiti 62781
P.O. Box 15665
West Palm Beach
Florida 33406
United States of America

CONTACT PERSON: Danny L. Cook, Haiti Field Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Haiti

WORKING LANGUAGES: English, French

ACTIVITIES: The organization provides water supply systems in rural, periurban and urban areas by means of cash grants, equipment and technical assistance. The main sources of water are springs, hand-dug wells and drilled wells. The water is lifted by handpumps. Distribution is by gravity. Local committees are involved in the promoting of water activities, management, financing, operation and maintenance. Public meetings are held to inform the community about the project. In the construction phase members of the community contribute labour and materials. The operating costs of the water supply systems are financed by user fees and collective community funds. Local people are trained in operation and maintenance.

ORGANIZATION: Missions Health Foundation

ADDRESS: P.O. Box 89 Telephone: 816-254-6205
Independence,
Missouri 64051
United States of America

CONTACT PERSON: Jack W. Maybee, Director of Community
Development

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: International

WORKING LANGUAGE: English

ACTIVITIES: The organization provides water supply and sanitation systems in rural and periurban areas by means of equipment, supplies and technical assistance. The main sources of water are springs, hand-dug wells, drilled wells and rainwater catchment. The water is lifted by handpumps. Distribution is by gravity. The types of sanitation technology include: latrines, food protection, control of domestic animals and vector control. Community appraisals are conducted as part of the planning process. Public meetings are held to inform the people about the project. Local committees are involved in the planning and acceptance phases; local women in the construction and acceptance phases. The people contribute in labour and materials to aid in the construction of the water supply and sanitation systems. For the operating costs the communities receive funds from outside organizations. The organization provides training courses for operators, labourers and masons. General health education material has been developed for the communities.

SERVICES: Programme planning, information services, construction, maintenance and financing.

ORGANIZATION: Non-Formal Education Information Centre

ADDRESS: 237 Erickson Hall Telephone: (517) 355-5522
Michigan State University
East Lansing
Michigan 48824
United States of America

CONTACT PERSON: Mary Joy Pigozzi, Director

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: International

WORKING LANGUAGE: English

ACTIVITIES/SERVICES: The Centre seeks to serve people concerned with the generation and use of knowledge about non-formal education and development. Its documents collection consists of over 7000 project descriptions and resource materials. Through a newsletter, ongoing series of annotated bibliographies and core bibliographies NFEIC highlights resources available on particular subjects and provide readers with information on how they might obtain these materials. Many of these publications concern water as it relates to such things as sanitation, health and agriculture.
An individualised reference service further enables planners and practitioners to obtain published and unpublished materials and to learn of others working in similar fields. In addition the Center conducts, upon request, special training activities.

PUBLICATIONS:

- Simoni, Joseph J., Luis Alberto Vargas and Leticia Casillas, Medicine Showmen and the Communication of Health Information in Mexico (Occasional Paper no. 7)
- Annotated Bibliography no. 2, Non-Formal Education and Health: A Selected Annotated Bibliography prepared by the staff of the NFEIC
- Annotated Bibliography no. 15, Non-Formal Education and Water Resources

ORGANIZATION: Project Concern - Mexico

ADDRESS: P.O. Box 125 Telephone: 841443 (Tijuana)
San Ysidro Telex: 695488, San Diego, CA.
California 92073 Cable address: PROJCONUS,
United States of America San Diego, CA.

CONTACT PERSON: Andrew Krefft, Programme Director

TYPE OF ORGANIZATION: NGO Foundation

SCOPE OF ORGANIZATION: Country branch, sub-national: North West Mexico

WORKING LANGUAGES: Spanish, English

ACTIVITIES: As one of their activities in the promotion of health in periurban areas provision is made of water supply and sanitation systems. The main source of water is drilled wells. The water is lifted by electric pumps. Distribution is by gravity and pumping. The types of sanitation technology include: latrines, food protection, control of domestic animals and vector control. Public meetings are held to discuss all the important water supply and sanitation issues. Local committees are involved in the planning, training, acceptance and evaluation activities. Attention has been given to the involvement of local women in the project. In the construction phase members of the community contribute labour. The operating costs of the facilities are financed by user fees, collective community funds and funds from outside organizations. Health promoters have been trained in general health care, and health related to water and sanitation. For this purpose training materials and community education materials have been developed.

PUBLICATIONS: - Village Health Promoter (Health manual for community health workers), available from: Project Concern International, 3550 Afton Road, San Diego, CA. 92123, USA.

ORGANIZATION: Save the Children Federation, Inc.

ADDRESS: 54 Wilton Road Telephone: 226-7271,
Westport 226-7272
Connecticut 06880 Telex: 6819138
United States of America

CONTACT PERSON: Mr. Jairo Arboleda, Director of Training and Technical Assistance

TYPE OF ORGANIZATION: NGO, Donor agency

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, Spanish, French, Arabic

ACTIVITIES: The strategy of the organization is known as Community-Based Integrated Rural Development. Heavy emphasis is placed on community organization and on training and non-formal education to help the rural people develop the necessary abilities in planning, implementing and evaluating development activities. Among other things the organization supports projects in water and sanitation. These projects cover a wide range of activities: from handpumps and water wheels to self financing, self-managed local and regional potable water systems; from pit latrines to sewage disposal systems; from research and development to manpower and technical skills training for installation and maintenance. Community participation in the planning, installation, maintenance and financing of water and sanitation facilities is seen as essential for the success of the projects. Baseline studies are conducted with the participation of community members to make an analysis of the social and economic conditions, the nature of the principal problems and the local resources available to help resolve these problems. The findings of the study are shared with the community and together a decision is made which problems to address first. Community committees are formed to take charge of the project activities and to collect user fees. Community members contribute to the construction of the facilities by providing labour, materials and money. Local people have been trained as promoters and community health workers. Health education is seen as an indispensable part of water supply and sanitation projects. For this purpose health education materials have been designed to educate the community. Also training materials for community health educators have been developed.

PUBLICATIONS:

- Robert Burrowes, Joseph Mayer, Small Water Project Training Module, 2/81
- Colin Ryder, Michael Cullen, Small Water Project Design and Construction
- Richard Tutweiler, Christine Ansell, Social Aspects of Water Distribution and Consumption in a Sub-District of Mahweit Province, 2/80

- Christine Ansell, Training in Water-related Hygiene/Sanitation, 3/81
- Christine Ansell, Robert Burrowes, Training Manual in Elementary Hygiene/Sanitation and its Construction, 8/81
- Christine Ansell, Robert Burrowes, Communicating Hygiene/Sanitation Messages to Villagers: An Experiment in Wadi Ayyan, 6/81
- Christine Ansell, Domestic Water Use in a Sub-District of Mahweit Province, 11/80
- Storn, P.H., Report on the Mahweit Town Water Supply Project, 12/78
- Building Ferro-cement Water Tanks in Tuvalu, Tuvalu Field Office, 1982
- John Grant, Sally Onesti, Community Participation in Water and Sanitation Projects, 5/82
- Lifeline: Save the Children Quarterly Magazine

SERVICES:

Training, education, organization of workshops and demonstration visits, information services.

ORGANIZATION: Seventh-Day Adventist World Service, Inc.

ADDRESS: 6840 Eastern Avenue, NW Telephone: 722-6777
Washington, DC 20012 Telex: 89-580 (within US
United States of America and Canada) ITT 440186
or WUI 64242 (overseas)
Cable address: Adventist
Washington - SAWS

CONTACT PERSON: David R. Syme, Director Programme Planning and
Evaluation

TYPE OF ORGANIZATION: NGO, Church affiliated, Donor agency

SCOPE OF ORGANIZATION: International

WORKING LANGUAGES: English, Spanish

ACTIVITIES: The organization is involved in water supply and sanitation projects in many countries of the world by providing cash grants, equipment, supplies and technical assistance. The main sources of water are springs, hand-dug wells, drilled wells, and disinfection or sedimentation of water from rivers. Lifting technology includes handpumps and bucket and pulley. Distribution is by gravity and pumping. Sanitation improvements include pit latrines, water-seal latrines, solid waste refuse and control of domestic animals. Community appraisals are conducted as part of the planning process. Local committees are involved in all phases of the project. Public meetings are held to inform the people about the new facilities. Women are actively involved in the construction, training, education and acceptance phase. Members of the community contribute labour and materials to aid in the construction of the water supply and sanitation systems. Local people have been trained as promoters, community health workers and personnel for system operation and maintenance. Training materials for community health educators and general health education material for communities have been disseminated.

PUBLICATIONS: Newsletters

ORGANIZATION: Volunteers in Technical Assistance (VITA)

ADDRESS: 1815 North Lynn Street Telephone: 703/276-1800
 Suite 200 Telex: 440192 VITAU
 P.O. Box 12438 Cable address: VITA INC
 Arlington
 Virginia 22209-8438
 United States of America

CONTACT PERSON: Richard J. Fera, Regional Director

TYPE OF ORGANIZATION: NGO, Charitable organization

SCOPE OF ORGANIZATION: Regional branches: Latin America/Caribbean
 and Asia/Pacific

WORKING LANGUAGES: Spanish, English

ACTIVITIES: VITA offers information and assistance aimed at helping people and groups to select and implement technologies appropriate to their situations. For example on the small Honduran island of Roatan solar and wind energy has been used to pump water up to a storage tank on a hill. From there the water is piped to individual homes. The systems are partly financed by outside organizations, partly by the residents themselves. The residents provide the needed labour and pay their own connection costs to the main line as well as a small monthly fee to cover the maintenance and repair costs. Community participation is the backbone of the project. The systems are planned, constructed and maintained in close cooperation with the community. Water boards have been formed to coordinate volunteer labour to build and manage the systems. Most board members are women. Local personnel for system operation, repair and maintenance have been trained by the organization. For this purpose a videotape has been developed. Water and sanitation educational and promotional material has been developed for the communities. The organization intends to include water-seal toilets and VIP latrines in its programme.

PUBLICATIONS:

- Vita News, published quarterly
- Video tape about the use of a windmill to provide water
- Vita, Village Technology Handbook, 1975

SERVICES: Programme planning, feasibility studies, organization of workshops and demonstration visits, information services, construction, maintenance and repair, distribution of technical publications and manuals.

ORGANIZATION: Water and Sanitation for Health Project (WASH)

ADDRESS: Coordination and Information Center
1611 N. Kent Street
Room 1002
Arlington, Virginia 22209
United States of America

Telephone: 703-2438200
Telex: WUI 64552
Cable address: WASHAID

CONTACT PERSONS: Dennis Warner, Project Director
Dr. Raymond B. Isely, Associate Director, Health and Social Sciences
James E. Beverly, Information Director

TYPE OF ORGANIZATION: Governmental

SCOPE OF ORGANIZATION: International to USAID-assisted countries

WORKING LANGUAGES: Spanish, French, English

ACTIVITIES: The WASH Project is a contractor-operated technical assistance service unit under the management of the Office of Health, Bureau for Science and Technology, Agency for International Development, Washington, DC. WASH provides consulting assistance to USAID Missions and offices, governmental and non-governmental organizations in AID-assisted developing countries, and to international organizations.

The areas of support available from WASH are primarily focussed on rural and urban-fringe water supply and sanitation improvement and include: general technical assistance, technology transfer, human resource development and training, community education and participation, and technical and development information. Requests for assistance should be sent to AID Missions or AID Washington. Request for information and publications may be sent directly to WASH to the attention of the Information Director.

Since its start in September 1980, the WASH Project has worked in or for fifty developing countries and produced over one hundred reports. Twenty-one of those reports include some aspect of community education and participation.

PUBLICATIONS: The following titles are illustrative of WASH work in the community education and participation area:

- WASH Brochure describing WASH services and procedures for requesting them.
- Periodic Progress Reports summarizing major WASH activities.
- WASH Technical Report 7. Facilitation of Community Organization: An Approach to Water and Sanitation Programs in Developing Countries, June 17, 1981, prepared by Raymond B. Isely.

- WASH Technical Report 15. Application of Health Education to Water Supply and Sanitation Projects in Africa. October 1982, prepared by Raymond B. Isely and Kathleen A. Parker.
 - WASH Technical Report 18. Community Participation and Women's Role in Water Supply and Sanitation in Developing Countries: A Three-Part Bibliography by Author, Subject and Country, November 1982, prepared by Ellen Kendall.
 - WASH Field Report 37. Community Water Supply and Sanitation in Sudan, April 1982, prepared for the USAID Mission to the Democratic Republic of Sudan by Charles G. Chandler, Frank P. Araujo and Eddy K.C. Lo.
 - WASH Field Report 90. The Minyambou Community Development Water Project and Water Supply in Irian Jaya, June 1983, prepared by Scott Falia.
- A list of all WASH publications is available on request.

SERVICES:

Through AID Missions, WASH can provide consultants to assist in all aspects of community education and the development of local participation in water and sanitation related programs and projects. This includes planning, evaluation, and the design and delivery of services and training programs in cooperation with local organization, with emphasis on the training of trainers. See the WASH brochure for details on these and other services.

The WASH Information Center responds to technical questions and related requests for development information.

ORGANIZATION: Action Micro-Barrages-Koudougou

ADDRESS: B.P. 26
Koudougou
Upper Volta
Cable address: B.P. 26
KOUDOUGOU RHV

CONTACT PERSON: Alain Peleman

TYPE OF ORGANIZATION: NGO, Voluntary

SCOPE OF ORGANIZATION: Sub-national

WORKING LANGUAGES: French, Moré, Lyélé

ACTIVITIES: Belgian volunteers assist in the construction of micro check dams for water supply in rural areas. Community involvement is promoted in all phases of the project. Community appraisals are conducted and public meetings are held to assess the needs of the community and to plan and construct the systems. The villagers contribute labour, materials and money to aid in the construction. Young people of the villages are trained to guide the construction. Voltaic counterparts are trained to replace the Belgian volunteers.

PUBLICATIONS: Technical reports, administrative reports and brochures.
Available from: Leo Geubels, Bosveld 2, 3830 Wellen, Belgium.

ORGANIZATION: Centre d'Etudes Economiques et Sociales
de l'Afrique Occidentale (CESAO)

ADDRESS B.P. 305 Telephone: 90491
Bobo Dioulasso
Upper Volta

CONTACT PERSON: Piet Buijsrogge, Director.

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: International: Francophone West-Africa

WORKING LANGUAGE: French

ACTIVITIES/SERVICES: Training of village health workers, village volunteers
and rural development workers in community development
and self reliance.
Institutional training courses take 1 to 4 weeks,
with subsequent follow-up visits to trainees in
the field.

PUBLICATIONS: Construire Ensemble (6x per year)

ORGANIZATION: Groupe de Recherche et d'Appui pour l'Autopromotion Paysanne (GRAAP)
(Research and Support Group for Rural Self Promotion)

ADDRESS: B.P. 305
Bobo-Dioulasso
Upper Volta

TYPE OF ORGANIZATION: NGO

SCOPE OF ORGANIZATION: International: Francophone African countries

WORKING LANGUAGE: French

ACTIVITIES: The organization is involved in the production and distribution of educational materials (flanel board, pictures, booklets) aiming at village self-improvements in water supply and sanitation.

PUBLICATIONS: - GRAAP, Pour une Pédagogie de l'Autopromotion,
Bobo-Dioulasso, n.d., 96 pp.
- GRAAP, Series Santé au Village.

SERVICES: Development, production and distribution of educational materials

ORGANIZATION: Mennonite Central Committee
Country Office: Upper Volta

ADDRESS: B.P. 1307 Telephone: 366-93
Ouagadougou Cable address: Mencioncom
Upper Volta

CONTACT PERSONS: David Cronkhite, Country Representative
David Carrier, Development Worker

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Upper Volta

WORKING LANGUAGES: French, English, Moré

ACTIVITIES: The organization is involved in well programmes in the southern regions and in small dams projects for village water supply in the Sahel region in the North of Upper Volta. The wells are hand-dug and lifting of water is by bucket and pulley. The wells and dams are constructed with local materials, with village labour and practically no financing. The organization is involved in setting up locally-based small businesses that provide technical advice in the construction of the small dams.

Community participation of both men and women takes place not only in the construction phase by also in the other phases of the programme, mainly through the public meetings and the involvement of local committees. Local people are trained as promoters and technicians. It is anticipated that the project will expand into other aspects of water and soil erosion control, such as the construction of small dikes in the fields, revegetation and stripcropping, and reforestation.

PUBLICATIONS: - Technical manual on casing of wells (in French)

ORGANIZATION: Mission Baptiste

ADDRESS: B.P. 580 Telephone: 35067
Ouagadougou
Upper Volta

CONTACT PERSON: Jimmy B. Foster, Missionary (Engineering Consultant)

TYPE OF ORGANIZATION: NGO, Church-affiliated

SCOPE OF ORGANIZATION: Sub-national: Sanwabo Region

WORKING LANGUAGES: French, Moré

ACTIVITIES: The organization provides water supply systems in rural areas by means of equipment, supplies and technical assistance. The main sources of water are hand-dug wells, drilled wells and rainwater catchment. The water is lifted by bucket and pulley. Community appraisals are conducted as part of the planning process. Public meetings are held to discuss each phase of the project. Local committees are involved in the initiating, planning, construction and acceptance of the new water supply facilities. Community members contribute labour to aid in the construction. Operating costs are financed by collective community funds.

ORGANIZATION: Projet Puits

ADDRESS: Nouna Telephone: 13
Upper Volta

CONTACT PERSON: Mr. Herbert Schwarz, Project Manager

TYPE OF ORGANIZATION: NGO, church affiliated

SCOPE OF ORGANIZATION: Sub-national: Western Upper Volta

WORKING LANGUAGES: French, (German)

ACTIVITIES: The organization is involved in providing hand-dug wells with bucket and pulley in close cooperation with rural communities. Local committees are involved in the promoting, planning and construction phase and in the financing and maintenance of the facilities. The operating costs are financed by user fees and funds from outside organizations and individual persons. Community members contribute labour, materials and money to aid in the construction of the wells. In 1981/1982 wells have been constructed in 55 villages. Local people have been trained as promoters, personnel for construction/maintenance/repair, technicians and administrators. Water and sanitation educational materials have been designed.

ORGANIZATION: Sahel Solidarité

ADDRESS: B.P. 372
Ouagadougou
Upper Volta

CONTACT PERSON: Ouédraogo Raogo Blaise, Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: Moré, Dioula, Fulani, Gourma, Bobo, French and English

ACTIVITIES: The organization is involved in providing water supply and sanitation systems in rural and periurban areas. The main sources of water are hand-dug wells and drilled wells. Lifting technology includes handpumps and bucket and pulley. Sanitation improvements consist of latrines and excreta composting. Community participation is mainly through contributions in labour, materials and money to aid in the construction of the facilities. The operating costs are financed by user fees and funds from outside organizations. Local promoters, personnel for system operation and maintenance and administrators have been trained by the organization.

SERVICES: Training, organization of demonstration visits, construction, maintenance and financing.

ORGANIZATION: Nasonal Komuniti Developmen Trust (NKDT)

ADDRESS: P.O. Box 966 Telephone: 2969 Port Vila
Port Vila
Republic of Vanuatu
South Pacific

CONTACT PERSONS: Larry Traub, Advisor and Trainer
Gilbert Gibson, Community Participation Officer

TYPE OF ORGANIZATION: NGO, Community based

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: Bislama, English, French

ACTIVITIES: The NKDT works in the field of integrated rural development. On request of local communities the organization assists in the provision of water supply systems by means of equipment, supplies and technical assistance. The main sources of water are springs, hand-dug wells and rainwater catchment. Lifting technology includes handpumps and bucket and pulley. Distribution is by gravity. Community appraisals are conducted as part of the planning process. Community participation is promoted in all phases of the project through public meetings, the involvement of locally selected committees and community contributions in labour and materials. The operating costs are financed by user fees, collective community funds and governmental funds. Local people are trained in administration and in construction and maintenance of low cost ferroceement catchment projects. Training materials on operation and maintenance have been developed.

PUBLICATIONS: Administrative reports, brochures and newsletters have been published in Bislama.

SERVICES: Social research, project/programme development, implementation and training.

ORGANIZATION: New Transcentury Foundation
Country office: Yemen Arab Republic

ADDRESS: P.O. Box 377 Telephone: 202278
Sana'a
Yemen Arab Republic

CONTACT PERSON: Joseph Moyer, Deputy Director

TYPE OF ORGANIZATION: NGO, Foundation

SCOPE OF ORGANIZATION: Yemen Arab Republic

WORKING LANGUAGES: English, Arabic

ACTIVITIES: Transcentury is a non-profit organization and consulting group which implement development projects around the world. In Yemen the organization helps to provide potable water systems to 55 villages. The main sources of water are springs, hand-dug wells, drilled wells and rainwater catchment. Distribution is by gravity and pumping. As part of its activities the organization is involved in a pilot project in sanitation. The types of sanitation improvements include: latrines (pour-flush and pit latrines constructed for the separation of wet and dry) and waste water drainage. As a part of the planning process the local people are consulted about the design of the system and their ability to participate in construction (by means of labour, materials and money) operation and maintenance. For this, public meetings are held. Local committees are involved in promotional, construction, maintenance and management activities. The organization is looking for opportunities to involve women more actively in the various phases of the project. Operating costs are financed by user fees and collective community funds. Technical training courses are provided for local people. Training materials for extension workers have been developed.

SERVICES: Programme planning, institution building, training, organization of workshops and demonstration visits, construction and maintenance.

ORGANIZATION: C.B.Z.O.

ADDRESS: Vanga Hospital
B.P. 4728
Kinshasa II
Zaire

CONTACT PERSON: Dr. D.E. Fountain, Director

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: Sub-national: Bandundu region

WORKING LANGUAGES: French, Kikongo

ACTIVITIES: The organization is concerned with the training of nurses for community health and community health workers for local health centres in rural areas. A manual for community health has been developed to be used in the training courses. Each health centre is assisted by a Development Committee. These committees try to motivate the communities to improve their conditions of life. As one of their activities they educate the people about health related to water and sanitation. Sanitation improvements include latrines and solid waste refuse. The community members contribute labour, money and materials to aid in the construction of the facilities.

PUBLICATIONS: - Fountain, D. and Courtejoie, J., Infirmier comment bâtir la santé, manuel de santé communautaire, St. Paul, Kinshasa, 1982

SERVICES: Training

ORGANIZATION: Centre d'Etude et d'Expérimentation des Technologies Appropriées (CEETA)
Institut Supérieur de Développement Rural (ISDR)

ADDRESS: Université Nationale du Zaïre
B.P. 2849 Telephone: 3072
Bukavu
Zaïre

CONTACT PERSON: Georges Defour, Secretary

TYPE OF ORGANIZATION: University

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: French, (English, Swahili)

ACTIVITIES: The organization is concerned with the training of rural development technicians, agricultural development and the provision of water supply and sanitation systems. The organization's main sources of water are springs and protection of water from pond/tank. Lifting technology includes handpumps, solar pumps, windmills, and Archimedean screw. Distribution is by gravity and pumping. Sanitation improvements include pit latrines, excreta composting for biogas, food protection, vector control and domestic filters as well as solar distillers. Community appraisals are conducted as part of the planning process. Public meetings are held to discuss each phase of the project. Local committees, including local women are involved in the decision making process, the planning, construction and evaluation. Community members contribute labour, materials and money to aid in the construction of the facilities. Operating costs are financed by collective community funds and funds from outside organizations. To facilitate the active involvement of the local communities the organization has developed water and sanitation educational materials to be used by the promoters. Local people are trained as promoters, personnel for system operation and maintenance, technicians and (regional) planners. For this purpose training materials on system operation and maintenance and on appropriate technology have been produced.

PUBLICATIONS:

- Articles on appropriate technology by Georges Defour (in French)
- Magazine: Amuka (\$ 15 a year)

SERVICES: Programme planning, training, education, development of training and educational materials, organization of workshops and demonstration visits.

ORGANIZATION: Centre d'Etudes pour l'Action Sociale (CEPAS)
(Centre of Studies for Social Action)

ADDRESS: 9, Avenue Père Boka Telephone: 30-066
P.O. Box 5717 Telex: 21008 DIA ZR
Kinshasa-Gombe (attention CEPAS)
Zaire Cable address: PROVAC
(attention CEPAS)

CONTACT PERSON: Didier de Faily, S.J., Head of the Appropriate
Technology and Audio-Visual Section

TYPE OF ORGANIZATION: NGO, Church affiliated

SCOPE OF ORGANIZATION: National

WORKING LANGUAGES: French, English, Spanish, German, Lingala, Tshiluba,
Swahili, Kikongo

ACTIVITIES/SERVICES: Activities concerning water and sanitation are undertaken
by the Appropriate Technology Information Service
of the organization. Enquiries for specific technical
information issued by local groups and sponsors,
receive a detailed answer. If resources are available
for trip expenses, a technician undertakes on site
visits.

PUBLICATIONS: Technical notes, documents and manuals on water
supply and sanitation.

ORGANIZATION: Salvation Army
Country office: Zambia

ADDRESS: P.O. Box 34352 Telephone: 212556
Lusaka Cable address: SALVATION
Zambia LUSAKA

CONTACT PERSON: Capt. Roland J. Sewell, Project Secretary

TYPE OF ORGANIZATION: NGO, Religious

SCOPE OF ORGANIZATION: Zambia

WORKING LANGUAGES: English, Tonga, Bemba, Nyanja

ACTIVITIES: As one of its activities in the field of rural development the organization provides water supply systems and pit latrines by means of cash grants, equipment, supplies and technical assistance. The main sources of water are hand-dug wells and disinfection and sedimentation of water from rivers. Lifting technology includes handpumps, electric pumps and windmills. Distribution is by gravity. Community appraisals are conducted as part of the planning process. The members of the community contribute in labour and materials to aid in the construction of the facilities. The operating costs of the systems are financed by funds from outside organizations. Local people have been trained as community health workers and operators to work in the water and sanitation projects.

SERVICES: Institution building, construction and maintenance.

ANNEX 1: List of countries

- Argentina
- Bangladesh
- Belgium
- Bolivia
- Botswana
- Brazil
- Cameroon
- Canada
- Colombia
- Denmark
- Ecuador
- Ethiopia
- The Gambia
- Ghana
- Guatemala
- Guinea-Bissau
- Haïti
- Honduras
- India
- Indonesia
- Italy
- Ivory Coast
- Kenya
- Korea
- Lesotho
- Madagascar
- Malawi
- Mali
- Mexico
- Mozambique
- Nepal
- Netherlands
- Nigeria
- Pakistan

- Panama
- Papua New Guinea
- The Philippines
- Ruanda
- Singapore
- South Africa
- Sri Lanka
- Sudan
- Sweden
- Tanzania
- Thailand
- Togo
- Tonga
- Tunisia
- Uganda
- United Kingdom
- United States of America
- Upper Volta
- Vanuatu
- Yemen Arab Republic
- Zaïre
- Zambia

ANNEX 2: List of country-based organisations with an international geographical scope

<u>Organisation</u>	<u>Page</u>
- Association Internationale du Développement Rural, Belgium	30
- Coopibo, Belgium	32
- Atelier de Matériel pour l'Animation, Cameroon	37
- ARA Consultants, Canada	38
- Institute for Environmental Studies, Canada	39
- Centro de Investigaciones Multidisciplinarias en Desarrollo, Colombia	40
- Centre for Development Research, Denmark	42
- Centre for Medical Social Science and Social Medicine, India	58
- Sulabh International, India	75
- Lay Volunteers International Association, Italy	87
- Institut Africain pour le Développement Economique et Social (INADES-Documentation), Ivory Coast	88
- African Medical and Research Foundation, Kenya	90
- AIM-Tech, Kenya	92
- Latin American Institute of Educational Communications, Mexico	103
- SAWA - Werkgroep Waterbeheer, The Netherlands	110
- African Regional Health Education Centre, Nigeria	111
- International Institute of Rural Reconstruction, Philippines	119
- International Development Research Centre, Regional Office, Singapore	124
- The Valley Trust, South Africa	126
- Department of Social and Economic Geography, Sweden	129
- Euro Action Acord, Uganda	138
- Teaching Aids at Low-Cost, United Kingdom	139
- Missions Health Foundation, USA	142
- Non-Formal Education Information Centre, USA	143
- Save the Children Federation, Inc., USA	145
- Seventh-Day Adventist World Service, Inc., USA	147

- Volunteers in Technical Assistance, USA	148
- Water and Sanitation for Health Project, USA	149
- Centre d'Etudes Economiques et Sociales, Upper Volta	151
- Groupe de Recherche et d'Appui pour l'Auto-promotion Paysanne, Upper Volta	152

ANNEX 3: List of Indian organisations categorized by State

<u>State</u>	<u>Page</u>
<u>Andhra Pradesh</u>	
- Centre for Medical Social Science and Social Medicine	58
- The Rural Reconstruction Service Society	70
<u>Bihar</u>	
- Sulabh International	75
- Xavier Institute of Social Service	80
<u>Gujarat</u>	
- Indian Institute of Management	64
- Safai Vidyalaya - Sanitation Institute	71
- VIKAS, Centre for Development	78
<u>Karnataka</u>	
- Indian Rural Reconstruction Movement	65
- Seminary, Shramadana Sangha	72
<u>Kerala</u>	
- Christian Welfare Centre	60
<u>Maharashtra</u>	
- Tata Institute of Social Sciences	76
<u>New Delhi</u>	
- Action for Food Protection	57
- National Council of Educational Research and Training	69
- Voluntary Health Association of India	79
<u>Rajasthan</u>	
- The Social Work and Research Centre	73
- Udaipur Environmental Action Group	77
<u>Tamil Nadu</u>	
- Faculty of Rural Health and Sanitation Gandhigram Rural Institute (Deemed University)	61
- Gandhigram Institute of Rural Health and Family Welfare Trust	62
- Kottar Social Service Society	66
<u>Uttar Pradesh</u>	
- Planning, Research and Action Institute	68
- Lutheran World Service	67