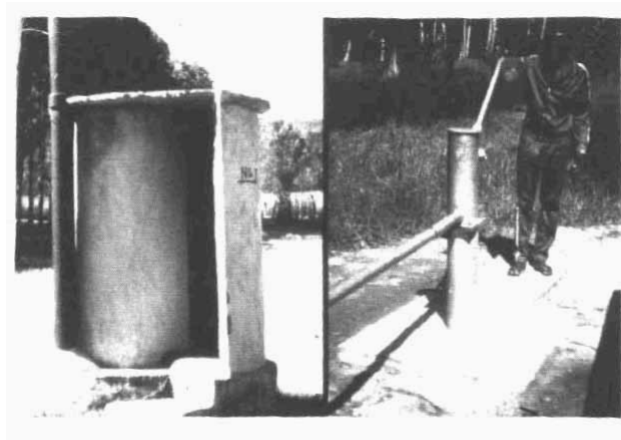


THE WORLD BANK

## Information and Training Materials for



## Low-Cost Water Supply and Sanitation



---

# Contents

Foreword 3

Introduction 5

## **I. THE TECHNICAL PACKAGE 7**

1. Introduction to Low-Cost Water Supply and Sanitation 7
  - Set 1.1. Introduction 9
2. Management and Community Participation 10
  - Set 2.1. Project Preparation and Implementation 10
  - Set 2.2. Institutional and Financial Aspects 11
  - Set 2.3. Economic Appraisal of Projects 12
  - Set 2.4. User Participation 13
3. Health and Hygiene 14
  - Set 3.1. Health Aspects of Water Supply and Sanitation 14
  - Set 3.2. Hygiene Education 15
4. Water Supply 16
  - Set 4.1. Rainwater Roof Catchment Systems 16
  - Set 4.2. Wells and Handpumps 17
  - Set 4.3. Gravity-Flow Water Supply 18
  - Set 4.4. Water Distribution Network 19
  - Set 4.5. Water Treatment 20
5. Sanitation 21
  - Set 5.1. On-Site Sanitation 21
  - Set 5.2. Waterborne Sanitation 22
  - Set 5.3. Sanitation Technology Selection 23
  - Set 5.4. Waste Treatment and Resource Recovery 24
6. Case Studies 25
  - Set 6.1. User Participation Case Studies 25

- 
- 7. Training Information 26
    - Set 7.1. Instructor's Guide 26
  - 8. Training Films 27
    - People and Problems 27
    - Problems and Solutions 27
    - Solutions and People 28
  - 9. Project Preparation Handbook 29

## **II. THE USER PARTICIPATION PACKAGE 30**

## **III. THE DECISION-MAKERS' PRESENTATION 32**

### **Training Materials of Related Interest 33**

- The Visual Learning System 33
- Film—Prescription for Health 34
- Economic Development Institute Multimedia Training Sets 35

### **List of Publications Distributors 36**

**Order Form** back cover flap

---

# Introduction

## The World Bank's Information and Training Materials for Low-Cost Water Supply and Sanitation

- Provide the latest information on a broad range of low-cost and easy-to-use water supply and sanitation technologies
- Emphasize good project management, hygiene education, and community participation—essential to the success of water supply and sanitation projects
- Target selected information to engineers and other professionals, field staff, and government decision-makers

These new training tools comprise a comprehensive collection of audiovisual and written materials that provide essential information on low-cost water supply and sanitation technologies and show how to design and implement projects successfully.

These materials, the first of their kind to be created on this scale, draw heavily on case studies and provide vivid examples of actual projects in developing countries. The case studies encourage those using the materials to relate the experiences of others to their own situations and show how to adapt technologies and techniques to local use. While not prescriptive, the materials raise questions and issues that point to the best solutions for local conditions.

Within the collection, three separate packages have been designed especially for engineers and other professionals, field staff, and government decision-makers. Consulting engineers, aid agency officials, educators, and others working in water supply, urban and rural development, and related fields will also find these materials useful in their work.

The materials in the collection can alone form the basis of special training courses, workshops, or seminars, but they are also designed to fit in easily with existing curricula. The topics covered in the collection are organized into self-contained Information and Training Sets that can be adapted to local situa-

---

tions. For example, the various slide-sound shows in the collection can be expanded to portray local conditions, and instructors can select particular topics from each Set that best relate to specific subjects in their classes.

All of the materials are packaged so that users can easily store them and quickly locate, separate, or file any single part of the collection. The materials are simple to use but do require a 35mm slide camera projector, an audio cassette tape player, and a 16mm camera projector or video cassette recorder (VCR).

This collection has been extensively field-tested on trainers, students, engineers, and other water supply and sanitation professionals, and thus reflects the experience of thousands of hours of classroom use throughout the world.

The Complete Collection of training materials, which includes all the slide-sound shows, instructor and participant notes, training films, and reference books, is available for \$2,500. A package especially for student engineers, technical staff, and other professionals is available for \$2,400, a package especially for field staff is available for \$1,000, and a package especially for government decision-makers is available for \$75. In addition, individual Information and Training Sets and the training films may be ordered separately. For details, see the order form on the back cover flap.

The collection is now available in English. It will be available in French and Spanish in 1987 and in other languages at a later date.