

PREPARING FOR THE NEXT GENERATION OF  
WATERSHED MANAGEMENT  
PROGRAMMES AND PROJECTS

# ASIA

Proceedings of the Asian Regional Workshop

Kathmandu, Nepal  
11-13 September 2003

Edited by  
**Moujahed Achouri**  
**Larry Tennyson**  
**Kumar Upadhyay and**  
**Roger White**



# CONTENTS

|   |  |
|---|--|
| Preface .....   | iii                                    |
| Acknowledgements .....  | vii                                    |
| Acronyms .....  | viii                                   |
| Introduction .....  | 1                                      |
| <b>PART 1</b>   | <b>FAO WATERSHED MANAGEMENT REVIEW</b> |
| <b>CHAPTER 1</b> Preparing the next generation of watershed management programmes .....   | 11                                     |
| <i>Moujabed Achouri</i>   |  |
| <b>CHAPTER 2</b> Review and assessment of watershed management strategies and approaches .....  | 19                                     |
| <i>Larry Tennyson</i>   |  |
| <b>PART 2</b>   | <b>REGIONAL REVIEW</b>                 |
| <b>CHAPTER 3</b> Successes and failures in watershed management .....   | 43                                     |
| in the Asia-Pacific Region (1982 to 2002)   |  |
| <i>Kumar Upadhyay</i>   |  |
| <b>CHAPTER 4</b> WOCAT: a standard methodology for documenting and evaluating .....   | 53                                     |
| soil and water conservation   |  |
| <i>Godert W. J. van Lynden and Hanspeter Liniger</i>  |  |
| <b>CHAPTER 5</b> New technologies for watershed management .....  | 59                                     |
| <i>Ashvin K. Gosain and Ian R. Calder</i>   |  |
| <b>PART 3</b>   | <b>NATIONAL AND LOCAL EXPERIENCES</b>  |
| <b>CHAPTER 6</b> Rethinking watershed development in India: strategy for the twenty-first century .....   | 69                                     |
| <i>Sudhirendar Sharma</i>   |  |
| <b>CHAPTER 7</b> Policy challenges and recommendations for watershed development in India .....   | 77                                     |
| <i>Ria Wilson, J. Amezaga, R. Gupta, S. Saigal</i>  |  |
| <b>CHAPTER 8</b> Watershed management experiences in GTZ-supported projects in India .....  | 85                                     |
| <i>Dr Rajan Kotru</i>   |  |
| <b>CHAPTER 9</b> Watershed management in Indonesia .....  | 93                                     |
| <i>Syaiful Anwar</i>  |  |
| <b>CHAPTER 10</b> Integrated watershed management for sustainable upland development and poverty<br>alleviation in Lao People's Democratic Republic ..... | 105                                    |
| <i>Phouangparisak Pravongviengkham, Anonth Khambung, Khamsone Sysanhouth,<br/>Peter Qwist-Hoffmann</i>  |  |
| <b>CHAPTER 11</b> Watershed management in Nepal: challenges and constraints .....   | 119                                    |
| <i>Krishna Poudel</i>   |  |

|                    |  |            |
|--------------------|--|------------|
| <b>CHAPTER 12</b>  | <b>Decentralized watershed management: experiences from the soil conservation and watershed management component – Nepal .....</b> | <b>129</b> |
|                    | <i>Kesher Man Sthapit</i>  |            |
| <b>CHAPTER 13</b>  | <b>Successful watershed management: a Nepalese village case study .....</b>  | <b>141</b> |
|                    | <i>Hawa Singh Lohan and R. C. Gupta</i>  |            |
| <b>CHAPTER 14</b>  | <b>Evolution of watershed management: the Sri Lankan experience .....</b>  | <b>149</b> |
|                    | <i>Elgoda Ranawakage Nimal Gunawardena</i>   |            |
| <br><b>ANNEXES</b> |  |            |
|                    | <b>ANNEX A Workshop programme .....</b>  | <b>158</b> |
|                    | <b>ANNEX B Participants .....</b>  | <b>161</b> |
|                    | <b>ANNEX C Working group participants.....</b>   | <b>164</b> |