

PROCEEDINGS

Private Irrigation in sub-Saharan Africa

Regional Seminar on Private Sector
Participation and Irrigation Expansion in
sub-Saharan Africa

22-26 October 2001, Accra, Ghana

Hilmy Sally and Charles L. Abernethy, editors



IWMI
631.73
G110
SAL

30864

IWMI
International
Water Management
Institute



Contents

Foreword	xiii
Preface	xv
Acknowledgements	xvii
Welcome address	xix
Theme 1: Small-scale, informal irrigation systems	
Tendances et perspectives de l'irrigation en Afrique sub-saharienne	1
(Irrigation trends and prospects in sub-Saharan Africa)	
<i>Moïse Sonou</i>	
<hr/>	
Développement de l'irrigation privée en appui a la sécurité alimentaire en Afrique de l'Ouest.....	15
(Private irrigation development in support of food security in West Africa)	
<i>S. Bangoura</i>	
<hr/>	
Socio-economic impact of smallholder irrigation development in Zimbabwe: A case study of five successful irrigation schemes	21
<i>Kennedy Mudima</i>	
<hr/>	
Développement de la petite irrigation privée en Afrique de l'Ouest: Leçons tirées des projets financés par la Banque mondiale	31
(Development of small-scale private irrigation in West Africa: Lessons drawn from World Bank financed projects)	
<i>F. Gadelle</i>	
<hr/>	
Affordable small-scale drip irrigation in Africa: Potential role of the private sector	49
<i>N. H. van Leeuwen</i>	
<hr/>	
Development of urban and peri-urban agriculture in West Africa	57
<i>Boubacar Barry</i>	
<hr/>	
Gender analysis for improved irrigation performance	65
<i>Barbara van Koppen</i>	
<hr/>	
Women irrigators and operation and maintenance of small-scale smallholder schemes in Africa	77
<i>Felicity Chancellor</i>	
<hr/>	
Theme 2: Irrigation management transfer	
Can irrigation management transfer revitalise African agriculture?	
A review of African and international experiences	95
<i>Douglas J. Merrey, Tushaar Shah, Barbara van Koppen, Marna de Lange, and Madar Samad</i>	
<hr/>	
Assisting sustainable irrigation management transfer: Case studies of good practices in West Africa	105
<i>Ingrid Hermiteau, Audrey Nepveu de Villemarceau and Christophe Rigourd</i>	
<hr/>	

L'irrigation privée dans le Delta du Fleuve Sénégal:	
Evolution et perspectives	121
(Private irrigation in the Senegal River Delta: Evolution and prospects)	
<i>Ibrahima Dia</i>	
From government to farmer-managed smallholder rice schemes:	
The unresolved case of the Mwea Irrigation Scheme in Kenya	127
<i>Charity Kabutha and Clifford Mutero</i>	
Impact of irrigation management transfer on the performance of irrigation systems:	
A review of selected experiences from Asia and Latin America	139
<i>Madar Samad</i>	
Theme 3: Commercial irrigation farming	
Commercial irrigation farming	151
<i>A. A. Gyamfi</i>	
A case study of the Volta River Estates Limited (VREL), Ghana	157
<i>S. K. Agodzo and A. K. Blay</i>	
Micro-irrigation and the poor: A marketing challenge in	
smallholder irrigation development	165
<i>Tushaar Shah and Jack Keller</i>	
Commercialisation of smallholder irrigation: The case of horticultural crops in	
semi-arid areas of eastern Kenya	185
<i>H. Ade Freeman and Said S. Silim</i>	
Capitalisation sur les conditions favorables au maraîchage irrigué en Afrique de	
l'Ouest à travers la commercialisation de technologies en irrigation appropriées ...	193
(Marketing of appropriate irrigation technologies to capitalise on favourable	
conditions for irrigated horticulture in West Africa)	
<i>P. Beaujault et B. Dotson</i>	
Theme 4: Enabling environment, emergence of new operators, and	
financing of irrigation.	
Enabling environments, financing mechanisms and equitable access to irrigation	197
<i>Charles L. Abernethy</i>	
Individual pump ownership and associated service providers in	
<i>fadama</i> irrigation in Northern Nigeria	211
<i>Salihu Abubakar</i>	
Roving course on pump selection in Burkina Faso, Mali and Niger: Lessons learned ...	221
<i>S. van 't Hof</i>	
Reflections on irrigation finance in Africa	227
<i>Chet Aeschliman</i>	
Leasing as an alternative for financing agricultural equipment:	
Initial experiences from Bolivia	247
<i>Frank Höllinger</i>	

Institutional and financial considerations for self-managed irrigated agriculture in West Africa: Examples from Burkina Faso and Niger	257
<i>Hilmy Sally</i>	
The role of the African Development Bank Group in financing irrigated agriculture: On-going examples in Gambia and Ghana	267
<i>Harouna Dosso</i>	
Encouraging capacity-building for private sector irrigation-technology service provision in Uganda	273
<i>Nick Shirra</i>	
Report on Discussions	281
Rapport Général	287
Annexes	
A Programme of the workshop	295
B List of participants	299