

Training manual on agricultural water management



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Prepared by:

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Supported through:

Improving Productivity and Market Success (IPMS) of Ethiopian farmers project
International Livestock Research Institute (ILRI), Addis Ababa, Ethiopia

January 2009



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Editing, design and layout—ILRI Publications Unit, Addis Ababa, Ethiopia.

ISBN 92-9146-235-7

Correct citation: Seleshi Bekele Awulachew, Lempriere P and Taffa Tulu. 2009. *Training manual on agricultural water management*. IWMI (International Water Management Institute), Addis Ababa, Ethiopia, ILRI (International Livestock Research Institute), Nairobi, Kenya and Adama University, Adama, Ethiopia. 235 pp.

Foreword

This set of modules on agricultural water management (AWM), covering five components, is prepared with the aim of providing reference and guide material on smallholders' agricultural water management primarily for Ethiopian farmers through the support of development agents and technical personnel. The materials covered include:

- Module 1: Watershed hydrology for improved agricultural water management
- Module 2: Water harvesting and development for improving productivity
- Module 3: Soil–water–plant relationship
- Module 4: Pumps for small-scale irrigation
- Module 5: Irrigation methods: Part I: Surface irrigation—Options for smallholders; Part II: Drip irrigation—Options for smallholders

The aim of the set of modules is to cover useful elements of AWM from estimating runoff at micro and small watershed level up to irrigated field water management. The modules thus aim at covering water availability estimation, water control and management, soil–water–plant relationship, water lifting and conveyance and irrigation methods. Each module is divided into a number of chapters and illustrated with figures, tables, charts and examples

The modules are also useful as a reference and teaching material at technical, vocational, educational, and training centres and as a field guide.

The documents extensively use existing knowledge in the form of texts, figures, demonstration materials derived from various sources such as books, grey literature such as web material, reports, manuals etc. Specifically they have immensely used materials from FAO, ICRISAT and IWMI documentations with or without citation to the specific references.

We hope that the materials contained in the manuals are useful to enhance management of water and land for improved agricultural productivity.

Acknowledgments

These manuals are prepared with the support of Improving Productivity of Market Success of Ethiopian Farmers (IPMS) project funded by the Canadian International Development Agency (CIDA) and jointly owned by the International Water Management Institute and the International Livestock Research Institute (ILRI) as a public good.

Contents

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Federal Democratic Republic of Ethiopia
MINISTRY OF AGRICULTURE AND
RURAL DEVELOPMENT



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développement international