



# ACTIVITIES IN ZAMBIA



## The AgWater Solutions Project

The aim of the project is to identify the factors that influence successful adoption and upscaling of small-scale agricultural water management (AWM) interventions and to provide a set of evidence-based tools and recommendations that support increased investment and policies to improve AWM adoption. The project is being undertaken in Zambia, Ethiopia, Ghana, Tanzania, Burkina Faso and two states in India, Madhya Pradesh and West Bengal. This short update is designed to provide stakeholders with details of the current status of the project, including project activities to date and what is being planned for the future.

## Activities to Date

### Inception and Midterm Workshops

An inception workshop for the entire project was held in Addis Ababa, Ethiopia, in May 2009. The project plan was discussed and work plan details were agreed for all countries. In January 2010, a midterm project workshop was held in Lusaka, Zambia, which was attended by representatives from each country where the project is being undertaken. The participants reviewed progress, adapted work plans, and further detailed outputs and outreach plans for all countries.

### Situation Analysis of AWM Technologies

The Farming Systems Association of Zambia (FASAZ) was contracted to review the situation of AWM in Zambia. The

purpose of this was to provide background material on and analysis of:

- Existing environmental, hydrological and climatic conditions;
- National institutional and policy frameworks related to AWM;
- Typologies of existing AWM practices and their geographic spread;
- Key actors who are supporting the development of AWM in each region; and
- Promising AWM solutions that merit further detailed study.

The output consisted of a comprehensive report titled, "Agricultural Water Management Solutions: The Situational Analysis in Zambia". A summary of the findings is also available as **a briefing note on the project website**.

### National Consultation Workshop

A National Consultation Workshop was held on July 31, 2009, in collaboration with the Agricultural Consultative Forum. About 30 participants representing government policymakers and program managers, nongovernmental organizations (NGOs) and researchers attended. The purpose of the workshop was to introduce the AgWater Solutions project, share experience of AWM, present and discuss the findings of the Situation Analysis, and prioritize promising AWM technologies in Zambia for further study. Those priorities are elaborated below in the case studies. A summary of the workshop minutes is available as **a briefing note on the project website**.

### Mapping AWM Potential and Solutions in Zambia

A workshop was held in Lusaka, Zambia, on January 25, 2010, to discuss the out-scaling of promising AWM solutions. The objectives of this session were to:

- Define a typology of livelihood zones in Zambia;
- Prepare a national map locating the main livelihood zones of Zambia; and
- Identify the potential of promising AWM solutions in Zambia for poverty reduction in each of these livelihood zones.

Experts from various relevant disciplines (e.g., agriculture, water management, geographic information systems (GIS), sociology and anthropology) worked in subgroups on the mapping exercise and then discussed the outcome for the various areas in plenary, coming to agreement on the most promising AWM solutions in each area.

### Gender Mapping Workshop

A gender mapping workshop was held in May 2010, which was attended by Zambia's key gender experts and other interested parties. The participants compiled a gender map of cropping

systems, as shown below. The map differentiates between male farming systems, where the majority of farm decision-makers are men; female farming systems, where most farm decision-makers are women; and various patterns in-between.

## Gendered Cropping Systems of Zambia



## Field Level Case Studies

Following up on the Situation Analysis and National Consultation Workshop, a number of case studies on promising AWM solutions were initiated as follows:

### Out-grower systems for smallholders (contract farming)

The case study was carried out in 2009 and the findings were presented at a national dissemination workshop held on January 23, 2010.

### Soweto fresh produce market

A case study was carried out on the Soweto Fresh Produce Market. The findings have been documented in a draft report which is currently under review.

### Gender in AWM technology adoption

Qualitative field studies were carried out on the gendered organization of farming and its impact on the adoption of a range of AWM technologies. The study was conducted in four sites with both matrilineal and patrilineal land tenure in Zambia.

## AWM technology adoption

This is a national comparative field survey on gendered adoption of Zambia's main AWM technologies (buckets, dambos, treadle pumps, hand pumps, rope-and-washer pumps, traditional river diversions and public irrigation schemes). The study is being carried out in Mpika, Katuba, Monze and Sinazongwe.

## Small reservoirs

A study is ongoing to compare small reservoirs in Ghana with those in Zambia.

## Supply chains of mechanized pumps and waiver of import duty on irrigation equipment

A case study on pump supply chains and the waiver of import duties for irrigation equipment is ongoing.

## Watershed Level Case Studies

The project is carrying out two complementary research tasks in the Katuba Watershed to assess the:

- Hydrological impact of current and potential AWM interventions; and
- Formal and informal institutional capacity to deal with AWM interventions and potential emerging externalities.

## Future Plans

- The remaining case studies will be completed and reports produced in early 2011.
- Preliminary project findings will be shared at technical meetings as soon as the draft reports are complete.
- The case studies will be formulated into "solutions" and "business models" with the support of various stakeholders.
- Solutions that are seen as being applicable in several countries will be developed into "investment briefs".
- Stakeholder engagement will continue through a series of consultations to discuss emerging outputs and proposed solutions, and to support the development and implementation of business models.

## Key Project Contacts

- Country coordinator and project contact point – Dr. Barbara van Koppen, International Water Management Institute (IWMI)
- Project Ambassadors for Eastern Africa - Prof. Nuhu Hatibu, The Kilimo Trust, Uganda and Dr. Nancy Mati, independent consultant, Kenya

For more information and copies of the briefing notes mentioned in this update, please see the country page on the project website:

<http://awm-solutions.iwmi.org/zambia.aspx>

If you would like copies of any of the reports mentioned in this update, please contact the Project Secretariat ([awmsolutions@cgiar.org](mailto:awmsolutions@cgiar.org))

