Water Management for Agricultural Production within a Context of Climate Change in the Zondoma Province, Burkina Faso (West Africa)

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World Water Forum, Mexico, March 16th to 22nd, 2006.
OUTLINE

Context
Objectives
Methodology
Implementation Strategy
Results
CONTEXT

Vulnerability and climate variability and change in the Sahel

Degradation of the ecosystems;
Decrease in crop and animal production;
Increasing poverty:

Necessity of adaptation
Project Area
Objectives

- to increase agricultural productivity (crop production, mixed crop-livestock farming);
- to improve the incomes and well-being of the populations;
- to ensure environmental sustainability;
- to improve the socio-economic environment.
Mechanism for Implementing the Project

- **Executing Agency**: AGRHYMET Regional Centre;
- **Donor**: Canadian Government (Canada Climate Change Development Fund) via CIDA
- **Scientific Partner**: Environnement Canada

**National Components**:
- A national focal point: National Meteorological Department of Burkina Faso
- National team:
  - Institute for the Environment and Agricultural Research (INERA),
  - Department of Agriculture of the Zondoma Province,
  - Association of Naam farmers’ Groups of Zondoma.
Methodology

- Synergy in terms of actions and ideas: research & development officers and producers/farmers;

- Inventory of local technological packages associated with water management and soil fertilization;

- Capacity building of technicians and producers/farmers;

- Conduct of trials in the form of demonstration sites or field schools
Results
Some Water and Soil conservation Practices

- Improved planting pit (Zaï)
- Half moon
- Rock/stone bunds/line
- Earth dikes
- Stone dikes
Training of Trainers

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Training Courses for Producers/Farmers
Laying out of Demonstration Sites in 24 Villages
Sowing
Ripening Stage
Harvest and Yield Assessment

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Lessons Learnt

- Importance of capacity building of local stakeholders;
- Importance of participatory approach;
- Inventory of water-saving techniques for agricultural production;
- Necessity of consultation framework;
- Diffusion of methodology and techniques through generalisation of this project and others.

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Thank You