The Maikaal bioRe Cotton Research Project

Growing Organic Cotton under Groundwater Stress: Lessons from the Maikaal bioRe Project, Madhya Pradesh, India

Project Partners:



Maikaal bioRe, India



FiBL, Switzerland



Intern. Water Management Institute (IWMI), India



Mandated by:



Swiss Agency for Development and Cooperation (SDC)

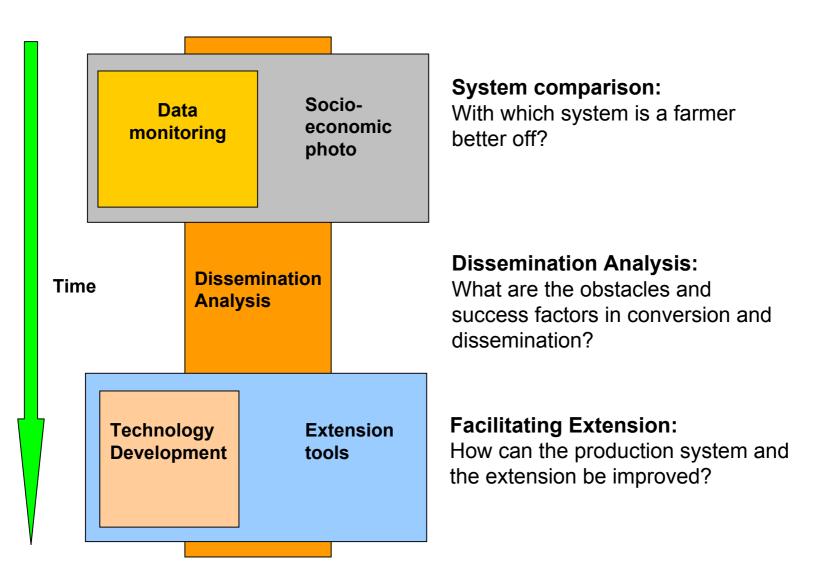


Remei AG, Switzerland





Set-up of the Research Project





Why to study Maikaal bioRe?

- Long experience: Started 1992 as a private sector initiative of P. Hohmann (Remei, Switzerland) and M. Jalan (Maikaal, India)
- Large size: involving 1'100 small and medium farmers in 75 villages; 7'500 acres certified organic cotton
- Extension component: Maikaal bioRe team provides training and advice to the farmers
- Credibility: Sophisticated Internal Control System (ICS); external inspection by bio.inspecta (CH)



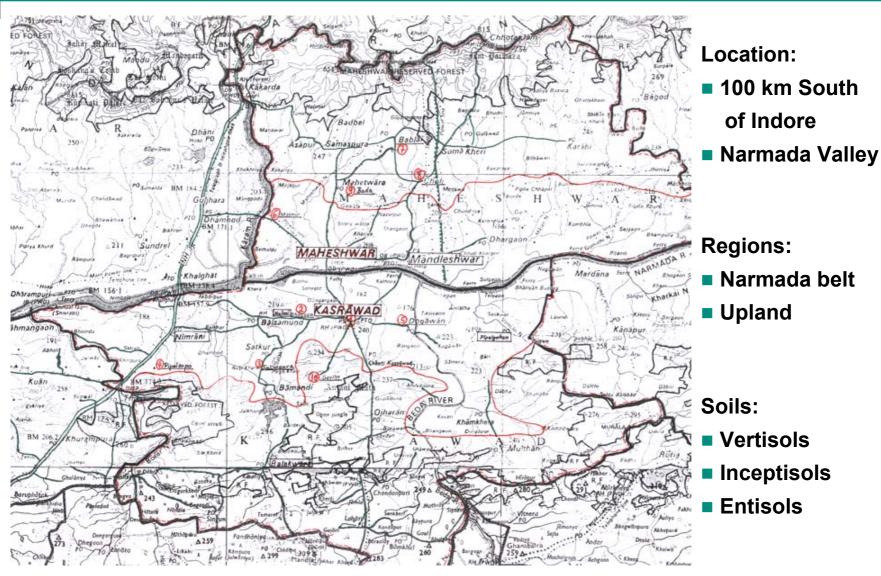


Maikaal bioRe - assisting the farmers through:

- Organizing the farmers; quality management
- Providing advice and information
- Supplying organic inputs
- Buying organic cotton at 15 20 % higher price
- Organizing the certification and ICS
- Identifying organic markets for the food crops
- Farmers are in the process of becoming stakeholders in the company
- In 2004: Construction of a Training Centre of the bioRe Association



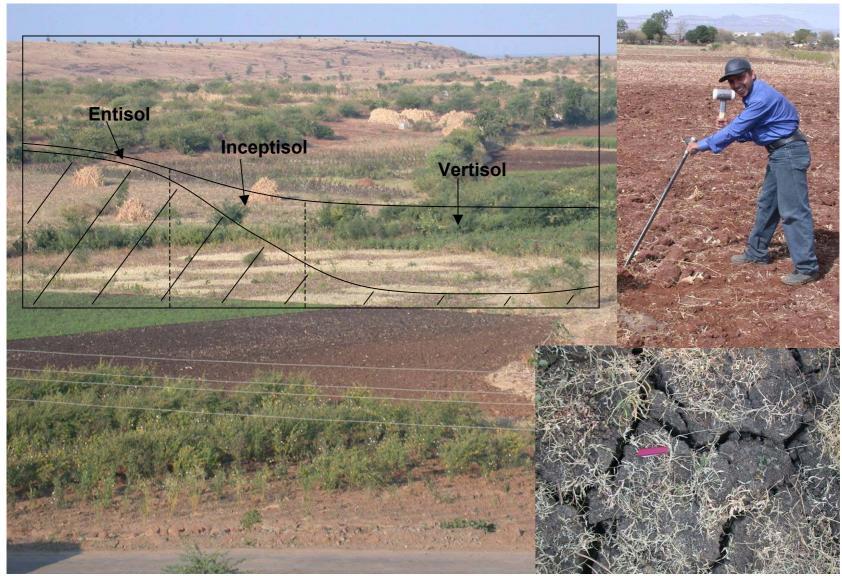
The Nimar Region







The Relevance of Soils





Agronomic Data Monitoring

- Analysis of inputs (cash, material, labour), outputs (yields, income) and soil properties
- 120 farms, 10 villages, random selection
- Initial interviews, record keeping
- Multiple regression analysis considering soil and water parameters









Socio-economic Photo

- To compare adopting and non-adopting households based on interviews
- Considering qualitative statements, observations, perceptions etc.
- Survey of approx. 400 farm families, various focus groups
- Combine with the findings of the agronomic data monitoring
 - → A holistic view

 To profile and characterize the adopters and non-adopters to organic farming and drip irrigation





Development and Extension

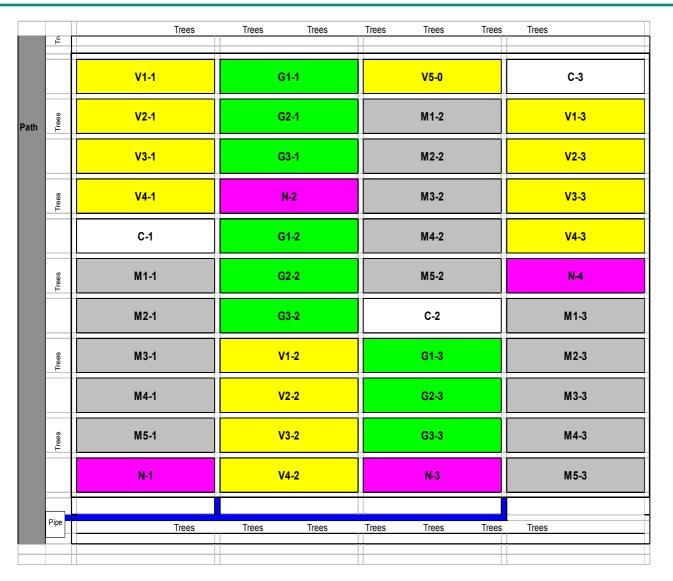
- □ Improving the production technologies (Field trials and Participatory Technology Development)
- ☐ Developing dissemination strategies
- ☐ Elaborating manuals and training tool kits
- ☐ Guidelines for efficient smallholder certification
- ☐ Exchange of experience among farmers







Organic Cotton Field Trials 2003/04 at Maikaal bioRe



Variety trials

- H8 (norm)
- JK4
- H10
- Jawahar Tapti

Manure trials

- Vermi-compost
- Vermi-wash
- NADEP compost
- Cow urine-slurry

Green manure trials

- Nagpur mixture
- Sesbania
- Moong intercrop



Extension Tool Kit for Organic Cotton

- Guidelines for Organic Cotton Production
- Training Manual on Organic Cotton
- Training Manual on Soil Issues in Cotton
- Video for Group Discussions
- Training and Extension Approach
- Concept for farmer-tofarmer exchange





Stakeholder Meetings

Sharing experience

Getting feedback

Joint initiatives



→ Final Workshop in 2005



The Relevance of the Rotation Crops

