Gender Cross-Cutting Research Activity

Gendered Perspectives for Conservation Agriculture: Local soil





Introduction

The Sustainable Agriculture and Natural Resource Management Collaborative Research Support Program (SANREM CRSP) is in its fourth phase of using science to improve the livelihoods and food security of small farmers in the developing world. The current phase focuses on conservation agriculture production systems (CAPS), defined by the following components: year-round soil cover, no tillage, and crop rotation. It includes the Gendered Perspectives for Conservation Agriculture cross-cutting research activity (CCRA), which addresses genderrelated factors that contribute to the success or failure of CAPS. Socioeconomic factors such as increased labor requirements—especially for women—are among the critical constraints to adoption of CAPS (Giller,

Gendered Knowledge, Beliefs, & Perceptions

Using qualitative, case study-based research, this project considers how

and women's knowledge, beliefs, and perceptions of soil fertility.

gendered access to and control of land and livestock correlates with men



- Describe the quality of the soil.
- 2. Which one is better?
- How do you know?



Indigenous women interpreting soil photographs (Illangama,

Gender Analysis

The Gender Dimensions Framework (GDF) facilitates a gender analysis of data collected. It incorporates four dimensions and the cross-cutting dimension of power (Rubin et al., 2009).

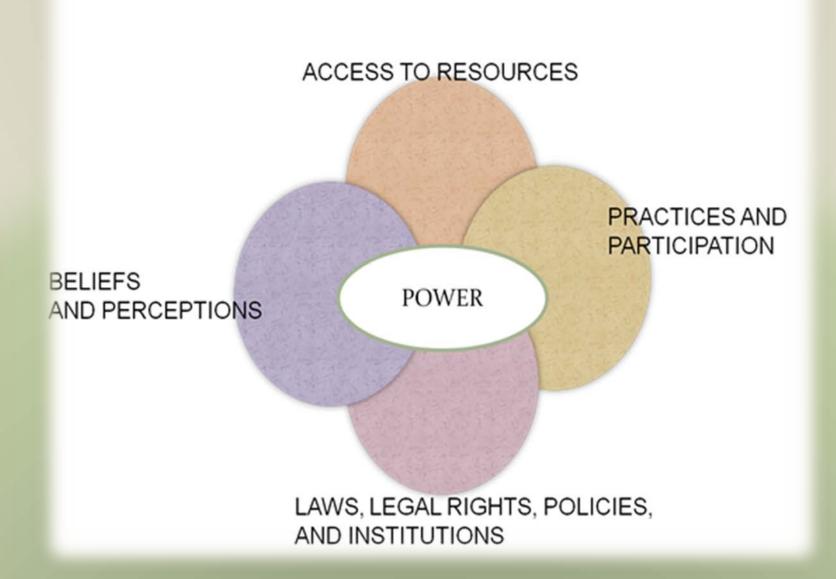
Research Objectives

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Objective 1: Document differences in men and women's knowledge, beliefs, and perceptions of soil fertility.

Objective 2: Document the gendered nature of crop-livestock interaction with respect to the conservation objective of maintaining crop residue cover on the soil.

Power and the Four Dimensions

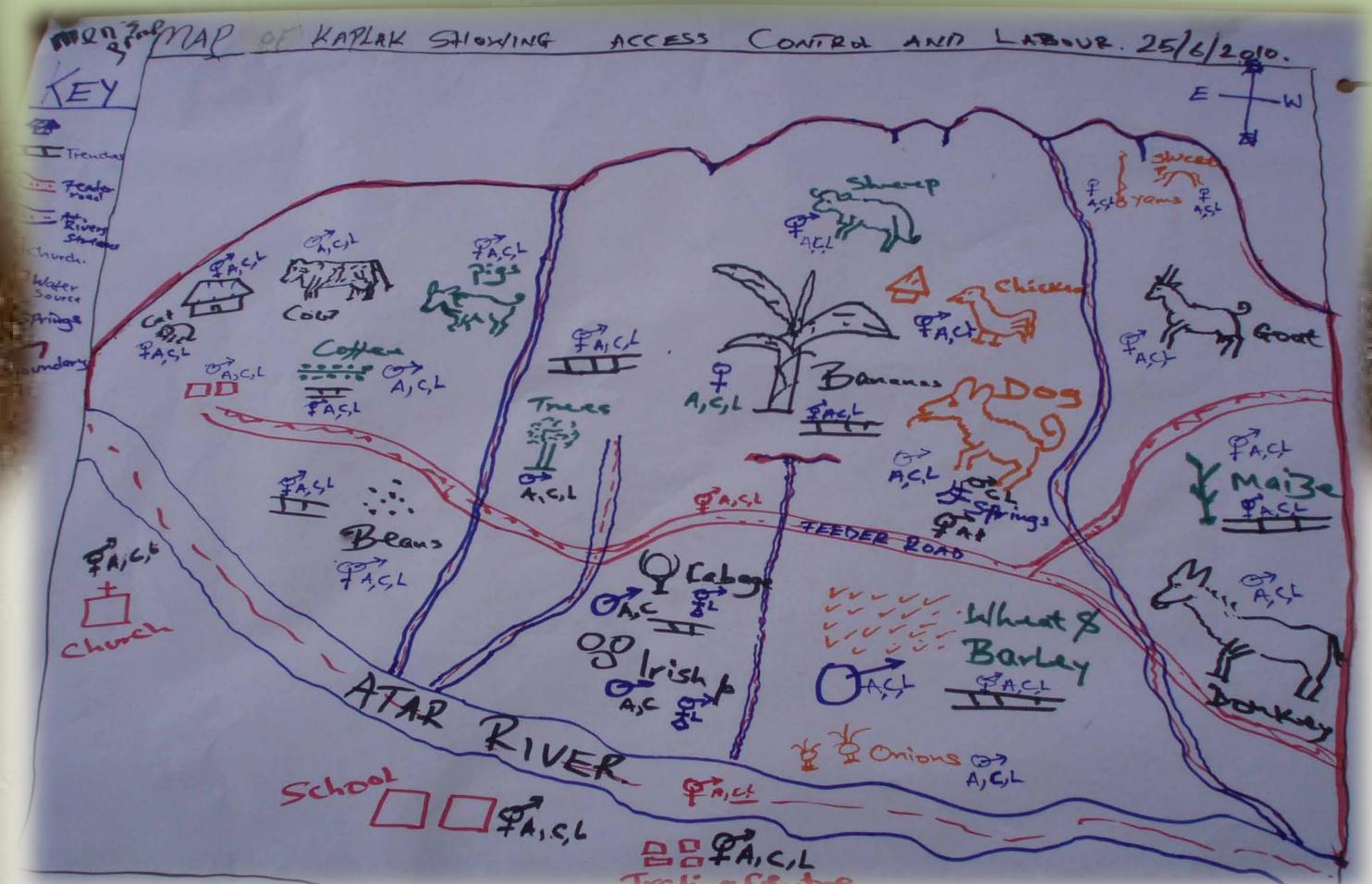


Hypothesis

Women will identify soil variables relating to fertility while men will identify variables related to field labor.

Methodology

Researchers use participatory, qualitative techniques, including: focus group discussions, socio-economic activity charts, participant observation, transect walks, structured and unstructured interviews, participatory mapping, and interpretation of photographs and soil samples. Gender disaggregated data is gathered by dividing men and women into different groups to carry out activities, and then coming back together to present as a whole.



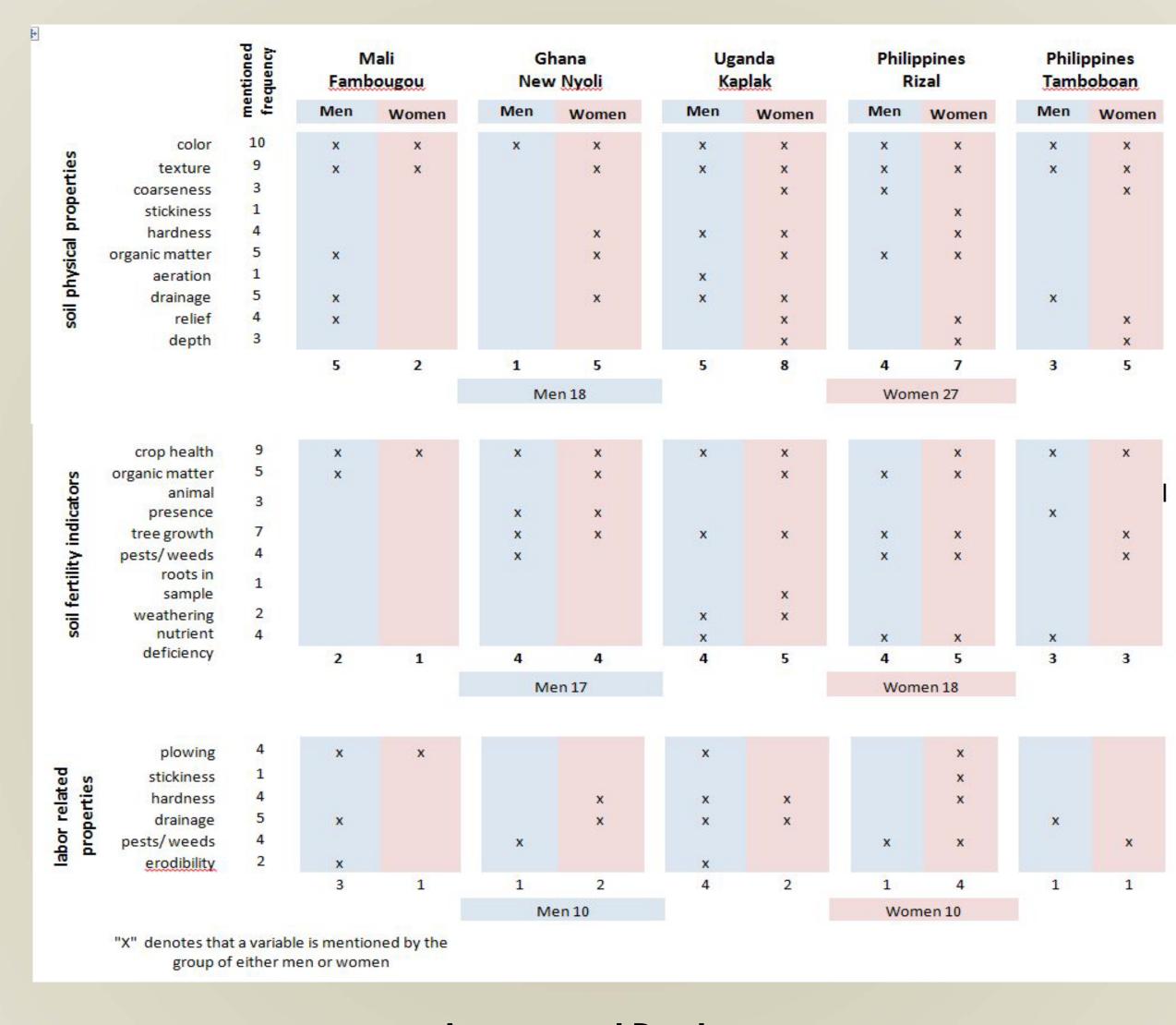
Map of Kaplak showing access, control, and labor (Kapchorwa, Uganda).

Access to Resources

Using participatory methods to map gendered landscapes showing access, control and labor in relation to productive and reproductive activities including gardening and raising small animals.

Research Data

From 2009 to 2010, focus group activities, including soil interpretation were conducted in: Mali, Ghana, Uganda, Ecuador, Kenya, and Philippines. Fieldwork begins in Bolivia and the Philippines in 2011, and India and Cambodia in 2012.



Anticipated Products

Two MSc theses, peer-reviewed journal articles, methodological tools for future research and projects. Recommendations for building on women's knowledge for promotion of CAPS.

Impediments Encountered

1. Understanding beliefs and perceptions requires ethnographic techniques and understanding of local culture and language. 2. Researchers mistranslate and summarize indigenous and local knowledge into Western science constructs.

Practices and Participation

Who does what?



Men and women farming (Tiraque, Bolivia).

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Giller, K. E. (2009). Conservation agriculture and smallholder farming in Africa: The heretics' view. Field crops research 114(1): 23. Rubin, D., C. Manfre and K.N. Barrett. (2009). Promoting Gender Equitable Opportunities in Agricultural Value Chains [Handbook]. Greater Access to Trade Expansion (GATE)





Men interpreting soil photographs (Claveria, Philippines).