Local Community's Perception, Assessment and Management of Food Insecurity Risks: The Case of Family Farming Households in South West Ethiopia

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Introduction

- Family farmers constitute over 81% of the total Ethiopian population and account for over 95% of total agricultural production (CSA, 2016).
- However, they are operating under continuous threat of risks (Von Braun & Olofinbiyi, 2009).
 which leads to structural food insecurity (Dorosh & Rashid, 2012).
- Family farmers perceive and assess these risks based on their experiences of different shocks in the past (Doss, et al., 2008).

 Based on how they perceived risks and the level of their resilience to the different risks, family farming households use diverse risk management strategies.

 The purpose of this study is to understand how family farming households perceive, assess and manage sources of food insecurity risks.

The study areas

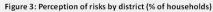
- Three districts in Southwest Ethiopia (Figure 1):
 - ✓ Kersa
 - Omonada
- ✓ Bako-Tibe
- Rain fed agriculture (crop and livestock)
- Main rainy season: March-September
- Mean annual rainfall: 900-1300mm
- Average temperature: 13-28 °C

Methods

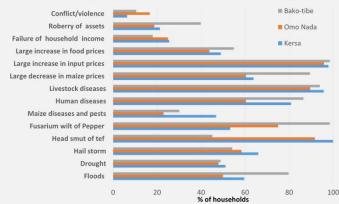
- Mixed methods approach used for data collection (Creswell, 2014)
- Qualitative data collected through Focus Group Discussions (34 groups, total of 210 people), in-depth interviews with 150 family farmers and observation of community practices
- Quantitative data from random household survey with 228 households
 - Figure 2: Focus group discussions in the field



Results Risks perception by family farmers



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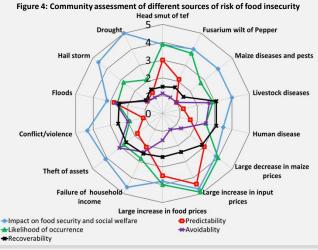


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Figure 1: Map of the study areas



Risk management strategies

- 1. Mitigation/preventive measures
- Geniso/growing tef using early rain and harvesting before the occurrence of head smut/
- Vaccination against major livestock diseases
- Soil conservation measures

2. Short term coping strategies against food shortage



3. Long term adaptation strategies

- · Use of drought tolerant, early maturing crop varieties
- Crop diversification
- Better forage management to reduce feed shortage
- Strengthening informal institutions

Conclusions

- Climate variables, crop and livestock diseases, market and institution related issues are perceived as the most relevant risks to cause food insecurity of family farms.
- Family farmers perceive and assess risks based on their experience from exposure to similar risks in the past.
- The risk management strategies vary based on their perceptions and access to resources among others.
- Understanding the risk perception, assessment and management strategies could be important inputs in development of policies, strategies and plans to reduce food insecurity.

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Risk assessment