

Diversifying agriculture for balanced nutrition through fruits and vegetables in multi-storey cropping systems (NutriHAF – Africa)

Determinants of Farm and Non-Farm Engagement in Yayu Biosphere Reserve, South-West Ethiopia **TROPENTAG CONFERENCE, SEPTEMBER 20-22, 2017 Bonn, Germany**



Project partners



Zentrum für Entwicklungsforschung Center for Development Research **Jniversity of Bonn**



biodiversity hotspots: in the transitional zone of the Yayu Biosphere reserve, Ethiopia

In village sites in close proximity to Ianombo and Agnalazaha special reserves in South Eastern Madagascar



Where does NutriHAF work?

Wangegne







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Map: study site in transitional zone, Ethiopia © GIS sketch by Demisse, ECFF

•Farming has remained to be one of the major means of livelihood for the rural majority in the study area, engaging 94% and 89% of male and female sampled households, respectively.

Introduction

•However, the productivity of the sector in the area remained poor despite its huge potentials and it becomes a 'push' factor for rural household to seek additional nonfarm livelihood options.

- Non-farm livelihood diversification has long been considered as coping or risk management mechanism.
- Non-farm livelihoods are also the main livelihoods for the poor and the landless.
- Identification of determinants of livelihoods

•In addition, gender disaggregated tobit regression analysis followed by marginal effect computations were employed to analyze the probability and extent of determinant variables in predicting farm and non-farm engagement

Results

•Male headed households were found to have higher farm engagement, greater possession of production factors including physical capital, land and labor along with better education level and greater access to credit than their female counterparts, resulting for increased agricultural productivity and income.

•Augmented production factors particularly farm physical capital and coffee land ownership have been found to increase the probability and intensity of farm engagement by 2.2% &2.45%, respectively both in male and female headed households. As a result, non-farm engagements were reduced significantly.

•Non-farm livelihoods are in general considered as "low-paying activities" and mainly practiced in off-seasons and when alternative job opportunities are limited. •The findings confirm that female headed households could engage in farming in the same way with that of male headed households despite the fact that the former have more responsibility and burden with household activities.

Concluding remarks

The existence of limited resources and agricultural inputs bounded by the occurrence of various farm challenges have been influencing the motivation of farm engagement negatively and led the rural majority to diversify their livelihoods to non-farm activities.



ASARECA



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Sustainable Development

is a key step in designing effective livelihood policies and strategies

• The study was conducted with an objective of identifying determinants of farm and non-farm engagements in Yayu Biosphere reserve of South-West Ethiopia

Methodology

- Household survey was conducted selecting 334 small holder farmers to collect gender disaggregated quantitative data
- In addition, 28 FGDS and 6 key informant interviews were conducted.
- Mean comparisons were made to identify the mean differences of demographic and socio-economic variables between male and female headed households.

Average Income of Households obtained from major crops and livestock per Cropping Year (in Ethiopian Birr)

•Access to credit and labor support system practiced in the area have also increased farm engagement by 3.8% and 0.34% respectively, and reducing engagement in non-farm activities significantly.

•On the contrary, a higher level of incidence of crop damage by wild animals as well as crop pests and diseases were found to increase burden on farm engagement, and simultaneously reduced engagements in nonfarm activities.

> Average Income of Households obtained from major non-farm activities (in Ethiopian Birr)

The overall findings suggest that male and female headed households prefer to engage in farming as their main livelihood option if they are equipped with the necessary farm production factors and the main farm challenges are resolved.

findings implied the need for sustainable, integrated and holistic approaches and institutional reforms to improve the future productivity of small holder agriculture, enhance the productive role of women and thereby improve the livelihood of the rural majority.

> Sustainable Livelihoods Research Framework (DFID, 1999)

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