

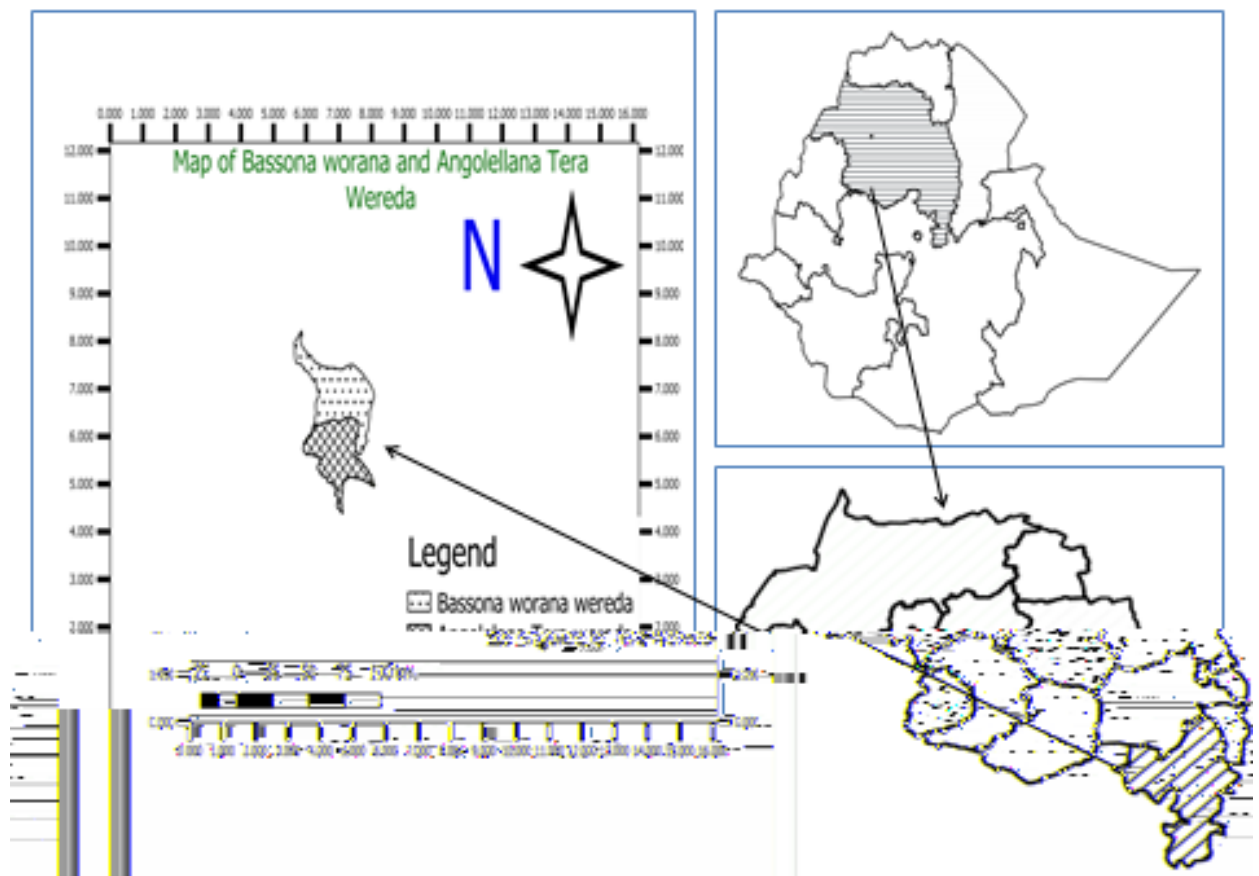
**Malt Barley Grain Market Participation and Level of Participation by Smallholder Farmers  
in North Shewa Zone of Amhara Region: A Heckman Two-Stage Model Approach**

**ABSTRACT**

## INTRODUCTION

## MATERIALS AND METHODS

### Description of study areas



## **Sampling Method and Sample Size**

## **Data Types and Sources**

## **Data Collection Methods**

## **Method of Data Analysis**

**Model specification for market participation and level of participation**

$$Y1 = \alpha0 + X1\beta1 + X2\beta2 \dots \dots \dots Xi\betai + \mu i \mu \sim N(0, \alpha^2) \dots \dots \dots (1)$$

$\alpha0$

$$Y2 = \beta0 + X1\beta1 + X2\beta2 \dots \dots \dots Xi\betai + \mu i \mu \sim N(0, \alpha^2) \dots \dots \dots (2)$$

$\beta0$

$\mu i$

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**Note**

**RESULTS AND DISCUSSION**

**Demographic and Socio-Economic Characteristics of Sample Household**

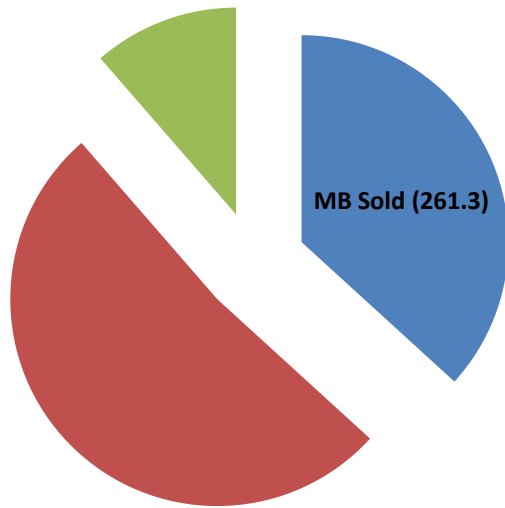
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**Note:**

**Malt Barley Grain Market Participation Level of Producer Households**



**Note:**

**Why not Sample Households Participating in Malt Barley Grain Market?**

**Determinants of Malt Barley Market Participation of Producer Households**



**Age of the household head**

**Formal education level**

**Malt barley farming experience:**

**Malt barley grain yield:**

**Livestock holding in TLU:**

**House hold resident distance to local cooperative:**

**Household resident distance to the nearest market:**

**Household access to stable food:**

**Determinants of Malt Barley Market Participation Level of Households**

**Formal education level of household head**

**Livestock holding in TLU:**

**Household resident distance to local cooperative:**

## Inverse Mills Ratio

$$\frac{\phi(x)}{\Phi(x)}$$

## **ACKNOWLEDGEMENT**

## **REFERENCES**



