

# ADAPTABILITY OF CLIMATE SMART AGRICULTURAL PRACTICES IN YELLOW CASSAVA AND IMPLICATIONS IN NIGERIA

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## Introduction

- Yellow cassava is a hybrid yellow-fleshed type of cassava cultivated by farmers in Nigeria.
- Varieties are UMUCASS 36, UMUCASS 37, and UMUCASS 38.
- Climate change is known to upset cassava cultivation in Nigeria.
- Hence, CSA adaptability of yellow cassava farmers was investigated.

## Results

- Cassava farmers were more of males (60.2 %)
- Major climate change hazards experienced by disease of crop (69.4 %) and reduced soil fertility (76.7 %).
- Earthling up of cassava plot, change in spacing between p plant stands, and change in farming systems were some of the new technologies adopted to enhance yellow cassava production.
- Alternative to agriculture (75.4 %), empowerment programs (77.2 %), and crop variety diversifications (97.0 %), were climate smart adaptive measures utilized.
- Age, education, household size, and extension contacts influenced climate smart adaptive measures of yellow cassava.

## Materials and Methods

- study was conducted in Ebonyi State, Nigeria
- Sampling technique was purposive
- Sampled respondents was 399 farmers
- Data analyses were done using descriptive statistics, and beta regression technique.
- Field Survey data. 2021

**Table 1: Climate smart adaptive measures of yellow cassava production**

CSA Practices	Frequency	Percentage
Alternative to agriculture	301	75.4
Empowerment program	308	77.2
Crop variety diversity	373	93.5
Engagement strategies	378	94.7
Seeking early climate change warnings	396	99.2
Collaboration with extension workers/agents	398	99.7

## Policy Implications

- Adaptation of CSA improves yellow cassava quality and production
- Adaptation of CSA improves household income

## Conclusion

- Climate change interrupted farmers planting Operations
- Farmers adapted to varieties of improved yellow cassava stems to increase cassava production in the area.
- To mitigate climate change, farmers adopted various climate smart adaptive measures.

