Breaking postharvest bottlenecks: Long-term sweetpotato storage in adverse climates

"TRIAL SET UP IN MALAWI"

SPHI

Sweetpotato Profit and Health

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A USAID-OFDA Disaster Reduction Research: Onfarm Sweetpotato Storage in Ghana and Malawi



Implementing organization:

- International Potato Center (CIP)
- Catholic Relief Services (CRS)
- Catholic Development Commission based in Mzuzu, North Malawi (Mzuzu-CADECOM)
- Min of Agriculture and Food Security (MoAFS)
- Three farmers' communities in Central and Northern Region of Malawi: Zombealaki, Kasungu District,
 - Chizerema, Kasungu District,
 - Champira, Mzimba District

These communities are under the supervision of CRS-CADECOM

Strategic plans



- Identifying the key individual farmers.
- Getting an appropriate numbers of farmers.
- Refreshing the knowledge and skills of the NGOs and government extension and the farmers on sweetpotato production management, postharvest handling and processing and utilization.
- Training on the data collection and management (extension & farmers).
- Setting up the trial at harvest and data collection.





- ➤ 3 villages in 2 districts
- > 30 participants per village
- ➤ 3 storages:
 - Afghanistan ventilated pit storage Ladder pit storage Granary
- > 2 types of sweetpotato:
 - Local varieties (white and yellow flesh)
 - OFSP (Zondeni)
- > 3 replicates per village

Assessments



Test of consumer acceptance at

0 month: mid May 2014 1.5 months later: end of June 2 months later: end Aug 2014 2.5 months later: mid Nov 2014

Test on market orientation:

End June 2014 during the harvest period in June 2014 Mid Nov 2014 where the sweetpotato is scarce

Test on Beta-carotene for OFSP varieties: End of June and Mid November 2014

Training on Pests and Diseases including a negative selection for SPVD











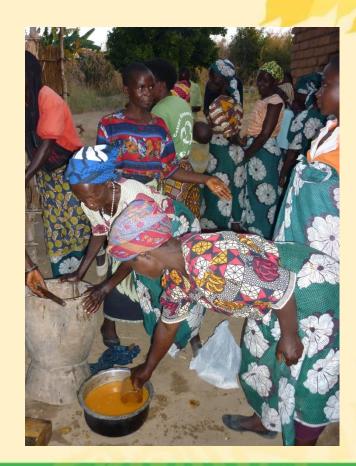
Good cultural practices can boost a good yield and clean



Training on Processing and Utilization: Increase of knowledge on OFSP to reposition sweetpotato, and Behavior change







Mandazi, Juices (leaves and roots), One-pot meal (at least 3 food groups in a dish), etc SPHI







Afghanistan Ventilated Pit Storage (a slight modification from the pit storage introduced by CRS)





Ladder Pit Storage with "dry" sand (slightly modified Malawian storage)







Granary covered by clay-cement with "dry" sand (improved Malawian storage)

 \rightarrow useful for flood prone areas



Thank you very much for you attention





