

# Silage production from sweet potato vines and tubers

## Fodder Enrichment for Thriving Livestock

Sweet potato silage production is an agricultural innovation that efficiently turns underutilized resources into high-quality animal fodder. The fermentation process preserves nutrients, making it a valuable addition to traditional feeds. Sweet potato silage promotes rapid livestock growth and maintains good health.



**International Potato Center (CIP)**  
Norman KWIKIRIZA

Technology from

ProPAS

Commodities

Sweet Potato

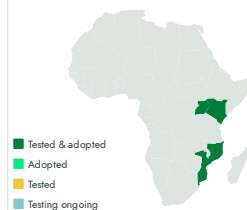
Sustainable Development Goals



Categories

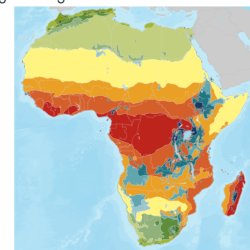
Postharvest, Practices, Post-harvest management

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Breeders, Farmers

✓ This technology is **TAAT1 validated**.

7•8



Scaling readiness: idea maturity 7/9; level of use 8/9

Inclusion assessment

4

Climate impact

7

### Problem

- **Resource Wastage:** Leftover sweet potato parts perish in hot, moist conditions.
- **Fodder Availability:** Persistent gaps exist in fodder availability.
- **Digestibility and Nutrition:** Fresh vines have poor digestibility and nutritional value.
- **Resource Collection:** Harvesting leftover sweet potato parts is labor-intensive.

### Solution

- **High-Quality Fodder:** Converts leftovers into nutritious animal feed.
- **Bridging Fodder Gaps:** Ensures consistent fodder availability.
- **Enhanced Digestibility and Nutrition:** Improves digestibility and conserves nutrients through fermentation.
- **Efficient Resource Utilization:** Reduces labor and effort in resource collection by providing a sustainable and cost-effective solution.

### Key points to design your program

Sweet Potato Silage converts sweet potato vines and non-marketable tubers into high-quality livestock feed, helping farmers overcome seasonal feed shortages while reducing feed costs and improving livestock productivity. Suitable for livestock development, integrated crop–livestock systems, climate-smart agriculture, and circular bioeconomy programmes, the technology contributes to SDGs 1 (No Poverty), 2 (Zero Hunger), 8 (Decent Work and Economic Growth), and 12 (Responsible Consumption and Production), while creating profitable business opportunities for women and youth. To successfully integrate this technology, consider the following key actions :

- Identify production areas where sweet potato residues are underutilized and seasonal feed shortages affect livestock production.
- Establish partnerships with CIP and national partners to support quality silage production.
- Invest in silage processing equipment and strengthen producer capacity on residue management, fermentation, storage, and livestock feeding.
- Support commercial silage enterprises and monitor feed availability, livestock productivity, feed cost savings, and programme outcomes.



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