

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.



This technology is **TAAT1 validated**.

7/8



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

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 business plan

Farmers/Breeders:

1. **Training:** Participate in sweet potato silage production training.
2. **Materials:** Gather sweet potato vines and tubers, a chipper, plastic sheets or tubes, sealing materials, and salt or sun-dried poultry manure.
3. **Feedstock Preparation:** Harvest and chop the vines and tubers, then sun-dry them.
4. **Silage Production:** Layer the chopped material in a container (70% vines, 30% tubers, 0.5% salt or manure), ensuring each layer is compacted.
5. **Storage:** Seal the container tightly and let the silage ferment for about 30 days.
6. **Usage:** Regularly check the silage for spoilage. Once ready, it can be used to feed livestock.

Remember to always follow local regulations and best practices.

Gender assessment



Climate impact



International Potato Center (CIP)

Norman KWIKIRIZA

Technology from

ProPAS

Commodities

Sweet Potato

Sustainable Development Goals



Categories

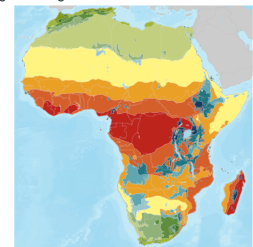
Transformation, Practices, Post-harvest management

Tested/adopted in



Where it can be used

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



Target groups

Breeders, Farmers



Silage production from sweet potato vines and tubers

<https://taat.africa/mbg>

Last updated on 22 May 2024, printed on 15 May 2025

Enquiries e-catalogs@taat.africa