

Specialty blended fertilizers for root and tuber crops

Special fertilizer for root and tuber crops

Specialty Blended Fertilizers for Root and Tuber Crops” are custom fertilizers that provide essential nutrients to address soil deficiencies in Sub-Saharan Africa. They are designed for sweet potato and cassava farming, promoting efficient nutrient use, root growth, and overall crop health.



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Technology from

ProPAS

Commodities

Sweet Potato, Cassava

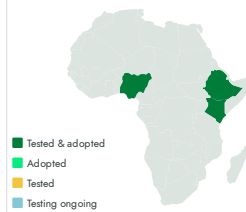
Sustainable Development Goals



Categories

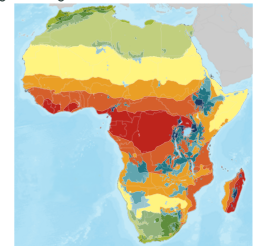
Production, Inputs, Fertilizer

Tested/adopted in



Where it can be used

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



Target groups

Farmers

✓ This technology is **TAAT1 validated**.

6•6



Scaling readiness: idea maturity 6/9; level of use 6/9

📄 Project adoption **2**

Technology integrated in the ENSURE, and SAPZ-II projects, in Nigeria.

Inclusion assessment **3**

Climate impact **7**

Problem

- **Soil Issues:** Many soils in Sub-Saharan Africa lack essential nutrients and suffer from low fertility, limiting the production of crops like sweet potato and cassava.
- **Insufficient Crop Resilience:** Crops like sweet potato and cassava are vulnerable to drought, pests, diseases, and stress, impacting their quality and yield.

Solution

- **Balanced Nutrient Supply and Crop-Specific Formulas:** These fertilizers provide essential nutrients to address soil deficiencies in Sub-Saharan Africa and are tailored to meet the specific needs of crops like sweet potato and cassava.
- **Enhanced Crop Health and Yield:** The right nutrient formula enhances crop productivity, quality, and resilience, helping them resist drought, pests, diseases, and stress.

Key points to design your program

Specialty Blended Fertilizers for Root and Tuber Crops can be integrated into **food security, soil fertility management, climate resilience, and root and tuber development programs** to improve soil health, increase productivity, and strengthen resilient farming systems. Its adoption contributes to **SDGs 1, 2, 13, and 15**.

To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- Facilitate access to **specialty blended fertilizers** adapted to cassava and sweet potato production.
- Build partnerships with **IITA, fertilizer companies, research institutes, extension services, and cooperatives**.
- Train farmers on **fertilizer application, soil fertility management, and climate-smart practices**.
- Promote **women's and youth participation** and support demonstration and advisory services.
- Monitor **fertilizer adoption, crop productivity, soil health, and farmer outreach**.

16 to 26 ton per hectare

sweetpotato yield increase



Open source / open access



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<https://taat.africa/gba>

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