

OFSP Orange-Fleshed Sweet Potato (High provitamin A)

Orange Sweetness, Nutrient Richness, and Farmer's Success - Embrace OFSP!

Orange Fleshed Sweet Potato (OFSP) is a biofortified crop rich in beta-carotene, particularly in comparison to light-colored flesh cultivars. Upon consumption, the beta-carotene converts into vitamin A, enhancing nutrition and supplementing diets. OFSP holds significant potential for improving food and nutritional security throughout Africa.



International Potato Center (CIP)
Kwiriiza Norman

This technology is **TAAT1 validated**.

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

Gender assessment **5**

Climate impact **6** **1**

Problem

- Widespread vitamin A deficiency contributes to malnourishment,
- Traditional sweet potato varieties yield only 3-7 tons per hectare, resulting in limited food availability and income for farmers.
- The lack of diverse and nutrient-rich crops hampers overall nutrition, posing a challenge to addressing dietary deficiencies and promoting sustainable agriculture.

Solution

- It addresses vitamin A deficiency by providing a rich source of this essential nutrient, promoting better health and nutrition.
- OFSP's improved varieties yield 25 tons per hectare, significantly surpassing traditional varieties, thereby enhancing food security and increasing farmers' income.
- OFSP offers a versatile and nutrient-rich crop, diversifying nutrient sources and contributing to overall nutrition, promoting a sustainable and healthier agricultural ecosystem.

Technology originally documented by
ProPAS

Commodities
Sweet Potato

Sustainable Development Goals

Categories
Production, Improved varieties, Yield improvement

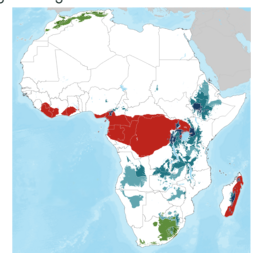
Tested/adopted in

Key points to design your project

This technology promotes gender inclusion by improving nutrition, food security, and aligning with Sustainable Development Goals, particularly benefiting women and children in Africa.

To integrate it into your project, estimate vine quantity needed, factor in delivery costs and import duties, provide training and support, develop communication materials, and optimize with related technologies. Collaborate with agricultural institutes and seed companies for implementation.

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



Cost: **\$\$\$ 20 USD**
10kg vines

200 kg vines for 1 acre (0.3 hectare) **25 tons** per hectare **IP** Open source / open access

Target groups
Farmers, Seed companies

