

Drought and Virus Tolerant Orange-Fleshed Sweet Potato

Resilient and Nutrient-Rich OFSP for Better Agriculture

Drought and Virus Tolerant Orange-Fleshed Sweet Potato (OFSP) is a variety that withstands drought, heat stress, and common viruses. It matures in 90 days, reducing the risk of incomplete tuber filling during uncertain rainfall. This technology addresses climate, pest, and virus challenges.





International Potato Center (CIP)

Norman KWIKIRIZA



This technology is **TAAT1 validated**.

7.7



7/9; level of use 7/9

Technology from

ProPAS

Commodities

Sweet Potato

Gender assessment



Climate impact



Problem

Drought and Heat Stresses negatively impacting sweet potato cultivation.

Common viruses affect sweet potato crops, causing reduced yields and crop damage.

Short Growing Seasons with Uncertain Rainfall.

Sweet potato crops are vulnerable to pests and insects causing damage to both field crops and stored tubers.

Solution

OFSP cultivars with traits like early maturation, deep roots, and high vine survival for resilience in drier and warmer climates.

OFSP varieties are resistant to common viruses, including stunt virus (SPCSV) and mottle virus (SPFMV), achieved through mass selection and genetic marker techniques.

OFSP varieties are resistant to pests like weevils, aphids, and whiteflies, safeguarding field crops and stored tubers.

Sustainable Development Goals







Categories

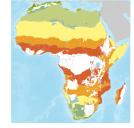
Production, Improved varieties, Disease resistance, Drought tolerance

Tested/adopted in



Where it can be used

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



Farmers, Seed companies

Key points to design your program

The Drought and Virus Tolerant Orange-Fleshed Sweet Potato (OFSP) thrives in dry conditions, boosting yields and nutritional value.

- In Malawi, following the 2016 drought, 300,000 households benefited from its high yields, improving food security and economic resilience.
- This technology supports SDGs by enhancing food security (SDG 2), empowering women farmers (SDG 5), and reducing reliance on water-intensive crops (SDG 13).
- · Ideal for development programs focused on sustainability, it offers a reliable, climate-resilient crop with strong support from the International Potato Center.



increase in wealth

per kg of vines

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Open source / open access

