## **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





International Potato Center (CIP) Norman KWIKIRIZA

sweet potato cultivation. roots, and high vine survival for resilience in drier and warmer climates.   Common viruses affect sweet potato crops, causing reduced yields and crop damage. OFSP varieties are resistant to common viruses, including stunt virus (SPCSV) and mottle virus (SPCSV) and mottle virus (SPFMV), achieved through mass selection and genetic marker techniques. Categories   Sweet potato crops are vulnerable to pests and insects causing damage to both field crops and ctored tubers. OFSP varieties are resistant to pests like weevils, Tested/adopted in	technology addresses climate, pest, and virus challenges.		Technology from
Gender assessment Image impact Image impact Sweet Potato   Problem Drought and Heat Stresses negatively impacting sweet potato cultivation. Solution Sustainable Development Goals   Common viruses affect sweet potato crops, causing reduced yields and crop damage. OFSP varieties are resistant to common viruses, including stunt virus (SPCSV) and mottle virus (SPFMV), achieved through mass selection and genetic marker techniques. Categories   Sweet potato crops are vulnerable to pests and insects causing damage to both field crops and report tubors OFSP varieties are resistant to pests like weevils, Destination	✓ This technology is <u>TAAT1 validated</u> .	7.7	ProPAS
Drought and Heat Stresses negatively impacting sweet potato cultivation. OFSP cultivars with traits like early maturation, deep roots, and high vine survival for resilience in drier and warmer climates. Image: Common viruses affect sweet potato crops, causing reduced yields and crop damage.   Short Growing Seasons with Uncertain Rainfall. OFSP varieties are resistant to common viruses, including stunt virus (SPCSV) and mottle virus (SPFMV), achieved through mass selection and genetic marker techniques. Categories   OFSP varieties are resistant to pests like weevils, to pests like weevils, Tested/adopted in			Sweet Potato
Short Growing Seasons with Uncertain Rainfall. (SPFMV), achieved through mass selection and genetic marker techniques. Production, Improved varieties, Disease resistance, Drought toleral   Sweet potato crops are vulnerable to pests and insects causing damage to both field crops and ctored tubers. OFSP varieties are resistant to pests like weevils, Tested/adopted in	Drought and Heat Stresses negatively impacting sweet potato cultivation. Common viruses affect sweet potato crops, causing	OFSP cultivars with traits like early maturation, deep roots, and high vine survival for resilience in drier and warmer climates.	2 (100) 13 (100) 13 (100) 13 (100) 13 (100) 13 (100) 14 (100) 15 (100) 16 (100) 17 (100) 18 (100) 19 (100) 10 (100) 10 (100) 10 (10)
apnias, and whiteriles, sareguarding field crops and	Sweet potato crops are vulnerable to pests and insects causing damage to both field crops and	(SPFMV), achieved through mass selection and genetic marker techniques.	Disease resistance, Drought tolerance
stored tubers. Key points to design your program The Drought and Virus Tolerant Orange-Fleshed Sweet Potato (OFSP) thrives in dry conditions, boosting			Adopted

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.



Open source / open access





Cost: **\$**\$\$

per kg of vines

Drought and Virus Tolerant Orange-Fleshed Sweet Potato https://e-catalogs.taat-africa.org/org/technologies/drought-and-virus-tolerant-orange-fleshed-sweetEnquiries <u>e-catalogs@taat.africa</u>

Target groups

Farmers, Seed companies

Last updated on 11 December 2024, printed on 11 December 2024