

# **Drought and Virus Tolerant Orange-Fleshed Sweet Potato**

Resilient and Nutrient-Rich OFSP for Better Agriculture

2 USD

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.

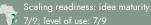




International Potato Center (CIP)

Norman KWIKIRIZA







**ProPAS** 

Commodities

Sweet Potato

Sustainable Development Goals







This technology is **TAAT1** validated.

per kg of vines

7.7

increase in wealth



Open source / open access

# **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.

#### Categories

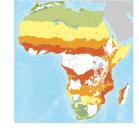
Production, Improved varieties, Disease resistance, Drought tolerance

### 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 business plan

OFSP technology can be of interest to manufacturers, resellers, and users. Manufacturers can propagate it, targeting farmers with access to resilient sweet potato varieties, requiring efficient sourcing and distribution. Users benefit from cultivating robust sweet potatoes with high yields and nutritional benefits.

Gender assessment



Climate impact



