

CONTRIBUTION OF SWEET POTATO FOR FOOD AND NUTRITION SECURITY IN MADAGASCAR



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Background

Rice is the staple food of the Malagasy; however, rice production is not enough to meet the needs of a growing population. This constraint, combined with damage from yearly cyclones, flood, locust, drought, frost, hail, and other events, compounds human starvation. Sweet potato is considered as the first crop to help alleviate affected areas. It is a crop that is easy to grow and over a short-growth cycle, it does not require fertilizer, and is drought and flood tolerant.



Released varieties

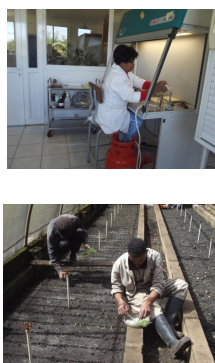
Varieties	CIP No	Yield (t/ha)	Flesh colour	β-carotene* (mg/100g fwb)	Dry matter (%)
Mahafaly	IITA TIS 2544	20	Cream	0,03	23,2
Naveto	CIP 440 131	20	White	0,03	26,0
Mahasoa	CIP 440 034	18	White	0,03	28,0
Riba	CIP 420 027	18	Orange	4,92	22,6
Mavo	CIP 400 011	20	Yellow	0,02	27,5
Mahavoky	CIP 440 163	21	White	0,03	26,6
Mafotra	CIP 440 170	19	White	0,03	28,2
Mendrika	CIP199004.2	24	Orange	1,65	28,1
Mevakely	CIP 199 026,10	20	Orange	1,38	28
Bora	CIP199062.1	25	Orange	4,61	29
Zambezi		25	Orange	7,76	36,6
Ejumila		25	Orange	3,76	32,7
Ukerewe		20	Yellow	0,12	40,5
J664		25,2	Orange	3,03	28,4
J314		24,9	Orange	3,76	29,5
E373		25,6	Cream	0,03	22,9
M13		25,4	Yellow	0,15	26,4
K287		24,7	Yellow	0,12	36,2

*Estimated Beta-carotene by using the RHS colour chart

Sweet potato breeding at FIFAMANOR

Since 1990, FIFAMANOR has worked on sweet potato research and extension in order to improve the food and nutrient security.

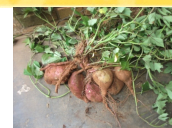
The objective is to identify high yielding variety, adapted to the agro-ecological condition, resistant to the biotic and abiotic stress and accepted by the producers and consumers



Most Popular Varieties



NAVETO
(CIP 440 131)
Released on 2001



MENDRIKA
(CIP199004.2)
Released on 2006



BORA
(CIP199062.1)
Released on 2007



Methodology

Importation of material planting
Multiplication by micro-propagating system and in greenhouse

Different trials: Observation trial (OT), Preliminary Yield Trial (PYT), Advanced Yield Trial (AYT), On Farm Trial

Vines production of released varieties

Dissemination of released varieties



Dissemination and target area

