

# “100 best bet” sweetpotato varieties for SSA

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*PMT SPHI-Regional Technical Support Platform for E., C. and S. Africa, Sweetpotato Seed Systems CoP: 5th Consultation- Marketing Strategies for Quality Sweetpotato Seed. Arusha, Tanzania, 10 -12th May, 2016*

# Attributes considered



- (1) **Estimated number of households** who grew the variety (by 2014-2015)
- (2) **Estimated area in ha** covered by variety (by 2014-2015)
- (3) **Yield (t/ha)**
- (4) **Skin color** o (orange), w (white), y (yellow), P (purple), PR (purple red), C (cream)
- (5) **Flesh color:** o (orange), w (white), y (yellow), P (purple), C (cream)
- (6) **β-carotene (mg/100g fwb)**
- (7) **Dry matter (%)**
- (8) **Maturity period:** Early (E) (about 4 months), late (L) about 5 or more months
- (9) **For food (FO) Feed (FE)**
- (10) **Resistant [R]/susceptible (S) to SPVD**, M (moderate) Resistant [R]/susceptible (S) to **Alternaria**, M (moderate)
- (11) **Origin / Availability of planting materials:** VS (very small quantities), easy to find (ef), abundant/very easy to find (A)

# Attributes considered



- 12) Yr of release
- 13) Remarks [E.g. Adoption (high/low), Drought tolerance, weevil resistance, shelf life (good/poor),
- 14) Commercial value (important/not important]
- 15) Priority
- 16) Agro-ecology: Low-Altitude/mid-elevation/ highland
- 17) Unimodel/Bimodal
- 18) Yield
- 19) Virus: Susceptible/Medium resistance/ High Virus Resistance
- 20) Dual Purpose
- 21) Quality: OFSP

# Attributes considered



22) **Quality:** High Dry Matter/Non-Sweet/ Intermediate Sweet/ Very Sweet

23) **Maturity:** Early (3-4)/ Medium (4.5-5)/ Late Maturity (>5 mo)

24) Already **Commercialized**

## **Other Key Attributes**

25) **KEPHIS STATUS**

26) In-vitro

27) Available in Pathogen tested cuttings

# “100 best bet” varieties for SSA



Sr	Clone	Country	Score
1	Safaré	Burkina Faso	8
2	Nakalbo	Burkina Faso	9
3	Pepiris	Burundi	9
4	Mugamba	Burundi	12
5	Camp1	Cote d'Ivoire	9
6	Gbossolom Vihou	Cote d'Ivoire	9
7	Safo Fiou	Cote d'Ivoire	9
8	Azag3	Cote d'Ivoire	10
9	Camp3	Cote d'Ivoire	10
10	TIB	Cote d'Ivoire	10
11	Kulfo (LO-323)	Ethiopia	10
12	Tulla (CIP-420027)	Ethiopia	10
13	Awassa-83	Ethiopia	12
14	CRI-Patron	Ghana	9
15	Faara	Ghana	9

Sr	Clone	Country	Score
16	Obare	Ghana	9
17	Okumkom	Ghana	9
18	Santom Pona	Ghana	9
19	CRI-Apomuden	Ghana	10
20	CRI-Dadanyuie	Ghana	10
21	CRI-Ligri	Ghana	10
22	Nanungungu	Ghana	10
23	Blue Blue	Ghana	11
24	TU-Purple	Ghana	11
25	Kenspot 5	Kenya	11
26	Kenspot 4	Kenya	12
27	Galona / Sihanaka	Madagascar	9
28	Naveto	Madagascar	10
29	Mendrika	Madagascar	11
30	Nyamoyo	Malawi	9



# “100 best bet” varieties for SSA Cont'd



Sr	Clone	Country	Score
31	Sakananthaka (LU96/303)	Malawi	9
32	Sungani	Malawi	9
33	Chipika	Malawi	10
34	Kadyaubwerere	Malawi	10
35	Anaakwanire	Malawi	11
36	Kaphulira	Malawi	11
37	Mathuthu	Malawi	12
38	Zondeni	Malawi	12
39	Bie	Mozambique	9
40	Caelan	Mozambique	9
41	Ivone	Mozambique	9
42	Lawrence	Mozambique	9
43	Victoria	Mozambique	10
44	Alicia	Mozambique	11
45	Anna-Marie	Mozambique	11

Sr	Clone	Country	Score
46	Bita	Mozambique	11
47	Esther	Mozambique	11
48	199062.1	Mozambique	12
49	Bela	Mozambique	12
50	Cecilia	Mozambique	12
51	Erica	Mozambique	12
52	Jane	Mozambique	12
53	Lourdes	Mozambique	12
54	Melinda	Mozambique	12
55	Namanga	Mozambique	12
56	Sumaia	Mozambique	12
57	Tio Joe	Mozambique	12
58	Amelia	Mozambique	13
59	Delivia	Mozambique	13
60	Ininda	Mozambique	13

# “100 best bet” varieties for SSA Cont'd



Sr	Clone	Country	Score	Sr	Clone	Country	Score
61	Irene	Mozambique	13	76	Blesbok	S. Africa	12
62	TIS 2532.OP.1.13	Nigeria	9	77	Kabbia	Sierra Leone	9
63	Butter Milk	Nigeria	10	78	Slipot1	Sierra Leone	9
64	Ex-Igbariam	Nigeria	10	79	Slipot2	Sierra Leone	9
65	TIS 8164	Nigeria	11	80	Slipot3	Sierra Leone	9
66	TIS 87/0087	Nigeria	11	81	Slipot4	Sierra Leone	9
67	UMUSPO/3 (Mother's Delight)	Nigeria	12	82	Kiegea	Tanzania	11
68	UMUSPO/1 (King J)	Nigeria	13	83	Polista	Tanzania	11
69	Ndamirabana (RW11-2910)	Rwanda	9	84	Ukerewe	Tanzania	12
70	Kwezikumwe	Rwanda	10	85	New Kawogo	Uganda	10
71	Terimbere (RW11-2560)	Rwanda	10	86	Ejumula	Uganda	11
72	97-062 (Gihingamukungu)	Rwanda	11	87	NASPOT 9 O (Kabode)	Uganda	11
73	Bophelo	S. Africa	10	88	Tanzania (SPNO)	Uganda	11
74	Impilo	S. Africa	10	89	Dimbuka-Bukulula	Uganda	12
75	Monate	S. Africa	11	90	NASPOT 1	Uganda	12

# “100 best bet” varieties for SSA Cont'd



<b>Sr</b>	<b>Clone</b>	<b>Country</b>	<b>Score</b>
91	NASPOT 10 O (Vita)	Uganda	12
92	NASPOT 11	Uganda	13
93	NASPOT 12 O	Uganda	13
94	NASPOT 8	Uganda	13
95	NASPOT 13 O	Uganda	14
96	15/1 (Olympia)	Zambia	10
97	Chumfwa	Zambia	10
98	Kokota	Zambia	11
99	Twatasha	Zambia	11
100	Orange Chingovwa (Chiwoko)	Zambia	12



# “100 best bet” varieties for SSA – Sources of information – e.g.

## Sweetpotato in the Farming and Food Systems of Uganda: A Farm Survey Report



B. Bashaasha,  
R.O.M. Mwangi,  
C. Ocili pObwoya  
and P.T. Ewell



International Potato Center (CIP)

**NARO**

National Agricultural Research Organisation

## Sweetpotato in Tanzanian Farming and Food Systems: Implications for Research



Regina E. Kapiga,  
Peter T. Ewell,  
Simon C. Jeremiah  
and Robert Kileo

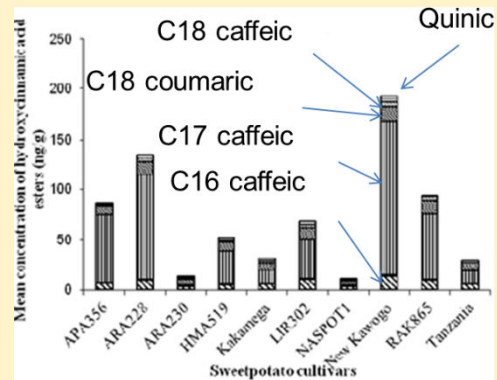


International Potato Center (CIP)



Ministry of Agriculture Tanzania

## Survey Reports



## Taste preference/ranking, Uganda 2012 (Mwangi et al. 2016: HortScience)

District/ Year	Cultivar	Yield( $t \cdot ha^{-1}$ )		Disease severity		Taste test rank
		Root	Biomass	SPVD	Alternaria	
Kabale						(n=20; m=5, f=15)
2012A	NASPOT 10 O	8.1	22.1	1.6	1.0	3
	NASPOT 7/2006/1185	2.7	32.7	2.1	1.0	5
	NASPOT 12 O	13.8	34.5	2.0	1.1	4
	NASPOT 13 O	11.4	30.0	2.1	1.0	2
	Murungi (LC)	11.3	28.7	3.4	1.7	1
	Mean	9.5	29.6	2.2	1.2	NA
	LSD <sub>0.05</sub>	2.3	NS	0.6	0.3	NA
	CV (%)	25.7	29.6	28.9	29.5	NA

## On-station and on-farm trials

## Specific studies

# “100 best bet” varieties for SSA Next Steps



- Clean Up by CIP at KEPHIS
- Variety characteristics e.g. dry matter, beta-carotene, drought tolerance, weevil resistance will be provided
- Clean varieties will be maintained in tissue culture and screenhouse at Muguga
- Distribute to countries at request/charge



**Thank you for  
your attention**