ORANGE-FLESHED SWEETPOTATO FOR AFRICA

CATALOGUE

2014

SECOND EDITION

CENTRO INTERNACIONAL DE LA PAPA

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INTRODUCTION

The second edition of the orange-fleshed sweetpotato (OFSP) catalogue is a revision of the first edition published in 2010. The revision comprises of: a) an update of the list of varieties to include the most recent and newly released and near release OFSP varieties from different countries in Sub-Saharan Africa (SSA), and b) corrections of minor errors that are in the first edition. Like the first edition, the second edition aims to present information on current popular OFSP varieties in SSA. The majority of the varieties are released in at least one country and are being grown by farmers, while others are advanced clones about to be released. A good number of the varieties are important parents in breeding programs to improve levels of β-carotene, root dry matter, and resistance to sweetpotato virus disease in the region. Some of the varieties are landraces from African countries while others are introduced germplasm from the USA, South America, and Asia, and have been found to be adapted to particular environments in SSA. The catalogue is arranged in single pages of information and pictorials for each of the varieties. Each page covers morphological characteristics, root attributes, and other major attributes as well as consumer and processing qualities of a single variety. Additional information about the current status of each variety is presented at the end of the document.

The International Potato Center (CIP) and its partners are breeding and promoting OFSP as a food-based approach to combat Vitamin A deficiency (VAD) and related health problems in SSA. Currently, about 32% of the children under five years of age in Africa suffer from of VAD. As non-OFSP sweetpotato is already a part of many people's diet, the transition to OFSP is just a marginal change. Our studies have shown that OFSP is highly acceptable to many rural African women, men and children and that integrated agriculture-nutrition education campaigns can significantly reduce the prevalence of VAD among young children. This catalogue should serve as a handy reference, providing summary information on current important and popular OFSP varieties in SSA. The information will be relevant to different stakeholders, scientists, development practitioners/ extensionists, and donors. For information on how to obtain varieties, please contact one of the offices listed at the back of this catalogue or the CIP regional office for SSA in Nairobi, Kenya.

Contents

AMELIA

IIAM-CIP BD013

(CIP 106768.1)

Country of origin: Mozambique

Pedigree: Mafutha 1 x OP

1

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when young and mature, with 5 deep lobes
Vine	Green and hairy at apical ends, very short (≤2.5 cm) internodes; intermediate (5-8 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	17.3 t/ha
Adaptability	Specifically adapted to Southern and Central of Mozambique
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Obovate
Skin colour	Pale purple
Dry matter	32.1%
Flesh colour (CIP colour chart)	Orange, (28C: 26D)
β-carotene content	5000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

ANA AKWANIRE

Country of origin: Seed from Uganda
Pedigree: Ejumula x OP

2

GROWTH CHARACTERISTICS

Canopy or plant type	Very spreading and twining
Leaf	Light green when mature and young; 3 moderate lobes
Vine	Green mature and apical ends, short (2.5-4.0 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	6 months
Root yields	25.0 t/ha
Adaptability	Specifically adapted in well rain fed areas
Resistance to pests	Moderate to sweetpotato weevil
Resistance to diseases	Tolerant to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Cream
Dry matter	29.0%
Flesh colour (CIP colour chart)	Intermediate orange, (29A:28D)
β-carotene content	5500 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

BELA

IIAM-CIP BD004

(CIP 106763.5)

Country of origin: Mozambique

Pedigree: UW 119 x OP

3

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green young and mature leaves, 5 moderate lobes
Vine	Light green; very short (≤2.5 cm) internodes, thin (4-5 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	25.9 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Cream
Dry matter	27.5%
Flesh colour (CIP colour chart)	Orange, (25A:28D)
β-carotene content	8390 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange
Texture of boiled roots	Moist to intermediate dry mouth feel
Taste	Sweet

CAROMEX
(CIP 440136)

Country of origin: USA
Pedigree: NC 228 x NC 234

4

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, purple young leaves; triangular and no leaf lobes
Vine	Green, with purple sections, very short (≤2.5 cm) internodes, thick (5-7 mm) diameter
Flowering ability and habits	Early (3 months) and moderate

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	15.3 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderately high to sweetpotato weevils
Resistance to diseases	Moderately high to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Purple red
Dry matter	22.7%
Flesh colour (CIP colour chart)	Dark orange, (28A:29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Dark orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

CARROT C

Country of origin: Tanzania
Pedigree: Landrace

5

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading (> 100 cm vine length)
Leaf	Green when mature, 3-5 moderately deep lobes
Vine	Green, short (3-5 cm) internodes, thick (7-9 mm) diameter
Flowering ability and habits	Early (3 months) and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	15.0 t/ha
Adaptability	Does well in low virus pressure zones
Resistance to pests	Moderately low to sweetpotato weevils
Resistance to diseases	Low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Cream
Dry matter	33.0%
Flesh colour (CIP colour chart)	Deep orange, (30D: 29B)
β-carotene content	12390-14370 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

CHIWOKO

Country of origin: Zambia
Pedigree: LUS 114 x OP

6

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Moderately lobed with 3 lobes
Vine	Pale green vines, very short (≤3.0 cm) internode length, and intermediate (5 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	20.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Very low to sweetpotato weevils
Resistance to diseases	Low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long oblong
Skin colour	Cream
Dry matter	34.0%
Flesh colour (CIP colour chart)	Intermediate orange, (28A:29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Dry mouth feel
Taste	Sweet

CECILIA

IIAM-CIP BD007

(CIP 106766.1)

Country of origin: Mozambique

Pedigree: UW119 x OP

7

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green young and mature leaves, 6 -7 deep leaf lobes
Vine	Green, very short (2.5-3.5 cm) internodes, intermediate (5-7 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	18.3 t/ha
Adaptability	Specifically adapted to Central and Southern Mozambique regions.
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Obovate
Skin colour	Brownish orange
Dry matter	26.7%
Flesh colour (CIP colour chart)	Pale orange, (14D:28C)
β-carotene content	6010 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Pale orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

CN-1424-9
(CIP 440245)

Country of origin: Taiwan
Pedigree: Uknown

8

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and erect
Leaf	Green when mature, purple when young, 5 deep leaf lobes
Vine	Green, short (3-5 cm) internodes, thick (7-9 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	20.0 t/ha
Adaptability	Does well at mid to high altitudes
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and very low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Brown
Dry matter	27.0%
Flesh colour (CIP colour chart)	Orange, (29A:28C)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, appealing mostly to children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

CN 1448-49
(CIP 440181)
Country of origin: Taiwan
Pedigree: Unknown

9

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and erect
Leaf	Green purple mix on mature leaves, purple petioles, and 4-5 very deep lobes
Vine	Deep purple, short (3-5 cm) internodes, thin (4-7 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	15.7 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Ovate
Skin colour	Pale purple
Dry matter	22.7%
Flesh colour (CIP colour chart)	Intermediate orange, (28D:28C)
β-carotene content	4470-4920 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

CORDNER

Country of origin: USA (material received from Zimbabwe)
Pedigree: Uknown

10

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, triangular, 3 slight leaf lobes
Vine	Green, moderate (3-5 cm) internodes, thin (3-5 mm) diameter
Flowering ability and habits	Moderate

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	14.9 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Elliptic
Skin colour	Orange brown
Dry matter	25.0%
Flesh colour (CIP colour chart)	Deep orange, (29A:28D) and cream secondary colour
β-carotene content	3760-7230 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Dark orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

CRI-Apomuden
(CIP 440254)

Country of origin: Bangladesh
Pedigree: Uknown
Original name: Kamala Sundari

11

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading (> 100 cm vine length)
Leaf	Green when mature, purple young leaves, and no leaf lobes
Vine	Green, short (3-5 cm) internodes, thin (4-6 mm) diameter
Flowering ability and habits	Early (3 months) and moderate

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	20.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Can be damaged by weevils after 4 months of age
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Purple-red
Dry matter	21.0%
Flesh colour (CIP colour chart)	Intermediate orange, (28C:18B)
β-carotene content	2100-5500 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, very appealing to children
Texture of boiled roots	Soft and moist mouth feel
Taste	Moderately sweet

DELVIA

IIAM–CIPBD012

(CIP 106771.1)

Country of origin: Mozambique

Pedigree: 105369-4 x OP

12

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green young and mature leaves, with 5-6 very deep lobes
Vine	Green stems, very short (≤3.0 cm) internodes; thin (4-5 mm) diameter
Flowering ability and habits	Moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	23.4 t/ha
Adaptability	Specifically adapted to Mozambique
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Root shape	Long elliptic with shallow longitudinal groves
Root skin colour	Purple
Dry matter	32.8%
Flesh colour (CIP colour chart)	Orange with yellow, (28C:18B)
β-carotene content	5540 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Pale yellow
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

EJUMULA
(CIP 443750)

Country of origin: Uganda
Pedigree: Landrace

13

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading (>100 cm vine length)
Leaf	Green when mature, 3-4 moderately deep lobes
Vine	Green, short (3-5 cm) vine internodes, intermediate (7-9 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	14.7 t/ha
Adaptability	Does well in low virus pressure zones
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	High to Alternaria blight and low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Cream
Dry matter	33.0%
Flesh colour (CIP colour chart)	Deep orange, (30D: 29B)
β-carotene content	7760 - 14370 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Dry and floury mouth feel
Taste	Sweet

ERICA

IIAM-CIPBD011

(CIP 106763.2)

Country of origin: Mozambique

Pedigree: UW119 x OP

14

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when old, green/purple ends when young; 5-7 moderate lobes
Vine	Pale green, very short (≤3.0 cm) internodes; intermediate (5-7 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	16.7 t/ha
Adaptability	Specifically adapted to Southern and Central Mozambique
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round/Round elliptic
Skin colour	Light purple
Dry matter	25.6%
Flesh colour (CIP colour chart)	Yellow orange, (11B:28D)
β-carotene content	1000-2000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Dry mouth feel
Taste	Moderate sweet

ESTHER

IIAM-CIPBD013

(CIP106770.1)

Country of origin: Mozambique

Pedigree: MUSG 0603 x OP

15

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Light green mature leaves, light green with purple young leaves, 3 moderate lobes
Vine	Light green stems, very short (≤3.0 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	18.6 t/ha
Adaptability	Specifically adapted to South/ Central of Mozambique, mostly arid region
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Ovate
Skin colour	Purple
Dry matter	29.6%
Flesh colour (CIP colour chart)	Intermediate orange, (25D:28C)
β-carotene content	4920 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

GABA GABA
(CIP 440215)

Country of origin: Taiwan
Pedigree: CIP breeding line
Original name: Tainung 65

16

GROWTH CHARACTERISTICS

Canopy or plant type	Spreader (>100 cm vine length) and semi-erect growth habit
Leaf	Green with purple margins, no leaf lobes
Vine	Purple, long (4-6 cm) internodes, thick (4-6 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	6.5 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Purple red
Dry matter	23.9%
Flesh colour (CIP colour chart)	Deep orange, (28A: 29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

IMPILO

Country of origin: South Africa
Pedigree: Amasi x OP (Bred by ARC)

17

GROWTH CHARACTERISTICS

Canopy or plant type	Bush
Leaf	Green when mature, triangular, slight teeth, 3-5 leaf lobes
Vine	Green, moderate (5 cm) internodes, thin (3.0-3.7 mm) diameter
Flowering ability and habits	Profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	31.1 t/ha
Adaptability	Not widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	High to Sweet potato feathery mottle virus; moderate to Alternaria blight, moderate to Fusarium wilt

ROOT CHARACTERISTICS

Shape	Round elliptic to elliptic
Skin colour	Pale yellow-orange
Dry matter	21.4%
Flesh colour (CIP colour chart)	Pale orange, (29A: 28B)
β-carotene content	5091 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Yellow orange, grey discoloration, but appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

ININDA

IIAM-CIP BD003

(CIP 106765.1)

Country of origin: Mozambique

Pedigree: Tacna – 2 x OP

18

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when mature, with 5 deep lobes, purple under veins
Vine	Green, short (2.5-4.0 cm) internodes, thin (4-5 mm) diameter
Flowering ability and habits	Early and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	22.2 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Pink
Dry matter	29.3%
Flesh colour (CIP colour chart)	Orange, (25A:28D)
β-carotene content	5310 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange and appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

IRENE

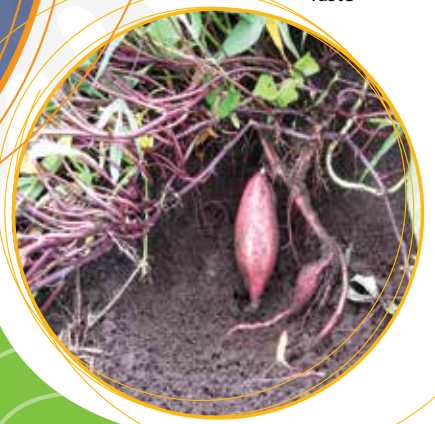
IIAM-CIP BD005

(CIP 106764.1)

Country of origin: Mozambique

Pedigree: Kakamega 7 x OP

19



GROWTH CHARACTERISTICS

Canopy or plant type	Erect
Leaf	Green when mature, light green and purple edges when young, purple veins at top and under surfaces; with 5 deep lobes
Vine	Purple mature sections and green meristem tops, short (3.5-5.0 cm) internodes, thin (4-6 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	19.6 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Oblong
Skin colour	Purple red
Dry matter	28.8%
Flesh colour (CIP colour chart)	Orange with yellow, (28C:18B)
β-carotene content	8300 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

JANE
IIAM-CIPBD008
(CIP 106767.1)
Country of origin: Mozambique
Pedigree: LO323 x OP

20

GROWTH CHARACTERISTICS

Canopy or plant type	Erect
Leaf	Green leaves, purple leaf stalk, purple under veins, 4-5 very deep lobes
Vine	Purple green apex, very short (2.5 cm) internodes, thin (4-5 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	21.2 t/ha
Adaptability	Specifically adapted to Gurue (Central/ North of Mozambique) and Angonia (Central of Mozambique)
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Cream
Dry matter	29.2%
Flesh colour (CIP colour chart)	Intermediate orange, (25A:28D)
β-carotene content	5590 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Pale orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

JAPONES TRESMESINO SELECTO (CIP 420009)

Country of origin: Peru
Pedigree: Japones Tres Mesino OP

21

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and erect
Leaf	Green with purple margins and stalks, 4-5 very deep lobes
Vine	Purple, moderate (3-5 cm) internodes, thick (4-7 mm) diameter
Flowering ability and habits	Moderate

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	14.5 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderately resistant to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Light purple
Dry matter	21.6%
Flesh colour (CIP colour chart)	Light orange, (29A: 28C)
β-carotene content	3760—7230 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

JEWEL
(CIP 440031)

Country of origin: USA
Pedigree: Centennial x nugget

22

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Dark green when mature, triangular and no lobes
Vine	Green, short (3-5 cm) internodes, thick (7-9 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	21.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderately high to Alternaria blight and low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Copper brown
Dry matter	28.0%
Flesh colour (CIP colour chart)	Orange, (28A: 29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

KADYAUBWERERE

Country of origin: Malawi
Pedigree: Mafutha x OP

23

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green when young and mature; 5 deep lobes
Vine	Light green when young and mature, intermediate (5.0-7.5 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Late and sparse flowering

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	35.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Tolerant to sweetpotato weevils
Resistance to diseases	Tolerant to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Ovate
Skin colour	Purple red
Dry matter	31.0%
Flesh colour (CIP colour chart)	Deep orange, (28A:29A)
β-carotene content	8900 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to children and adults
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

KAKAMEGA

SPK004

(CIP 441768)

Country of origin: Kenya

Pedigree: Landrace

24

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading (>100 cm vine length)
Leaf	Green when mature, 5 very deep lobes
Vine	Green, short (3–5 cm) vine internodes, thin (4–6 mm) diameter
Flowering ability and habits	Early (3 months) and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	16.5 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Purple red
Dry matter	32.0%
Flesh colour (CIP colour chart)	Intermediate orange, (28C: 18B)
β-carotene content	3760.0 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange, appealing to adults and children
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

KANDEE
(CIP 440140)

Country of origin: USA
Pedigree: (Yellow Yam x Nancy Hall) x Porto Rico

25

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, purple young leaves, and no leaf lobes
Vine	Green, with purple on mature parts, very short (≤3 cm) internodes, thin (3-5 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	14.5 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Light purple
Dry matter	25.3%
Flesh colour (CIP colour chart)	Orange, (28A: 29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

KAPHULIRA

Country of origin: Malawi
Pedigree: Mugamba x OP

26

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green when young and mature; heart shaped single lobe
Vine	Purple with green spots when mature, intermediate (4-6 cm) internodes, intermediate (6-7 mm) diameter
Flowering ability and habits	Late and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	3.5 months
Root yields	35.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevil
Resistance to diseases	Tolerant to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Cream
Dry matter	30.0%
Flesh colour (CIP colour chart)	Intermediate orange, 29A:26D
β-carotene content	3200 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Dry and floury mouth feel
Taste	Sweet

KENSPOT-3

Country of origin: Kenya
Pedigree: SPK 004 x OP

27

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green when young and mature serrated with 5 lobes
Vine	Light green when mature, green when young, intermediate (5-7 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Flowers late and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	6 months at high altitude
Root yields	18.7 t/ha
Adaptability	So far only tested and released for high altitude (1700-2300masl) agroecologies
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus diseases

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Light beige
Dry matter	32.5%
Flesh colour (CIP colour chart)	Pale orange, (16D:28D)
β-carotene content	1380 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Light orange
Texture of boiled roots	Dry and floury mouth feel boiled roots
Taste	Moderately sweet

KENSPOT-4

Country of origin: Kenya
Pedigree: 103004/86 x OP

28

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when young and mature, with light purple midrib at the back; heart shaped single lobes
Vine	Light green when mature, green when young, very short (<3 cm) internodes, thick (7-9 mm) diameter
Flowering ability and habits	Does not flower at high altitudes

MAJOR AGRONOMIC ATTRIBUTES

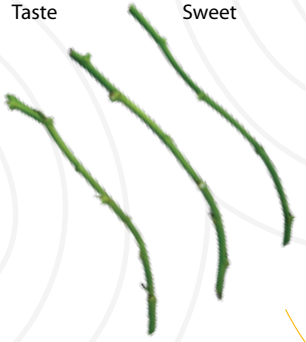
Maturity period	6 months at high altitude
Root yields	17.1 t/ha
Adaptability	So far only tested and released for high altitude (1700-2300 masl) agro ecologies
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus diseases

ROOT CHARACTERISTICS

Shape	Oblong
Skin colour	Purple red
Dry matter	30.4%
Flesh colour (CIP colour chart)	Orange, (28C:18B)
β-carotene content	3960 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet



KENSPOT-5

Country of origin: Kenya
Pedigree: 103004/86 x OP

29

GROWTH CHARACTERISTICS

Canopy or plant type	Erect
Leaf	Green when young and mature; with purple midrib and moderate deep five lobes
Vine	Purple when mature, green with light purple when young; very short (2-3 cm) internodes, intermediate (5 mm) diameter
Flowering ability and habits	Late and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	6 months
Root yields	14.8 t/ha
Adaptability	So far only tested and released for high altitude (1700-2300 masl) agro-ecologies
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus diseases

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Purple red
Dry matter	25.9%
Flesh colour (CIP colour chart)	Orange, (28C:18D)
β-carotene content	5490 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

KHANO

Country of origin: South Africa
Pedigree: Phala x OP

30

GROWTH CHARACTERISTICS

Canopy or plant type	Slightly Spreading
Leaf	Green when mature, 3-5 moderate to slight lobes
Vine	Green, intermediate (4.5 cm) internodes, very thin (3-3.6 mm) diameter
Flowering ability and habits	Profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Roots yields	24.5 t/ha
Adaptability	Widely adapted in South African agro-ecologies
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Very low to Sweet potato feathery mottle virus disease high to Alternaria blight

ROOT CHARACTERISTICS

Shape	Long elliptic to elliptic
Skin colour	Pale red purple
Dry matter	18.2%
Flesh colour (CIP colour chart)	Deep orange, (30D:29B); large amounts of latex
β-carotene content	11987 - 15565 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Dark orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Not sweet

KIEGEA
KBH 2001/261

Country of origin: Tanzania
Pedigree: Mafutha x OP

31

GROWTH CHARACTERISTICS

Canopy or plant type	Semi erect compact
Leaf	Green young and mature leaves; abaxial vein pigment all vein partially purple, triangular leaf shape and slight lobes
Vine	Predominant green with purple nodes; short (3-5cm) internodes, thick (10–12 mm) diameter
Flowering ability and habits	Early and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	3–4 months
Root yields	13 t/ha
Adaptability	Coastal lowland to mid altitude agro-ecologies
Resistance to pests	Moderate to sweetpotato weevils
Resistance diseases	Moderate to sweetpotato virus to disease

ROOT CHARACTERISTICS

Shape	Elliptic
Skin colour	Cream
Dry matter	25-30%
Flesh colour (CIP colour chart)	Pale yellow orange, (14D:28C)
β-carotene content	1500-2000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

K566632

Country of origin: Kenya
Pedigree: Unknown but SSR analysis suggests closely related to Resisto

32

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when mature, purple when young, 5-6 moderately deep lobes
Vine	Green, short (≤3 cm) internodes, very thin (<4 mm) diameter
Flowering ability and habits	Late and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	15.0-20.0 t/ha
Adaptability	Widely adapted except in water stressed areas
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Intermediate pink
Dry matter	25.0-26.0%
Flesh colour (CIP colour chart)	Deep orange, (29A: 28D)
β-carotene content	7000 - 8000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

LOURDES
IIAM-CIP BD009

(CIP 106763.6)
Country of origin: Mozambique
Pedigree: UW119 x OP

33

GROWTH CHARACTERISTICS

Canopy or plant type	Erect
Leaf	Green when mature, green and purple when young, with 5-6 intermediate lobes
Vine	Green, short (2.5-4.0 cm) internodes, intermediate (5-6 mm) vine diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	18.3 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Cream
Dry matter	25.8%
Flesh colour (CIP colour chart)	Intermediate orange, (28C:18D)
β-carotene content	9940 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange and appealing to children and adults
Texture of boiled roots	Somewhat dry mouth feel
Taste	Moderately sweet

LO-323
(CIP 440185)

Country of origin: USA
Pedigree: Unknown

34

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and erect
Leaf	Green with purple margins and stalks, 4-5 very deep lobes
Vine	Purple, moderate (3-5 cm) internodes, thick (4-7 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	13.6 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Ovate
Skin colour	Pale purple
Dry matter	21.0%
Flesh colour (CIP colour chart)	Intermediate orange, (28C: 18D)
β-carotene content	5490 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

MATAYA
KBH 2001/261

Country of origin: Tanzania
Pedigree: Mafutha x OP

35

GROWTH CHARACTERISTICS

Canopy or plant type	Semi erect compact
Leaf	Green young and mature leaves, abaxial vein pigment all vein partially purple, triangular leaf shape and slight lobes
Vine	Predominant green with purple nodes; short (3-5cm) internodes, thick (10–12 mm) diameter
Flowering ability and habits	Early and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	3–4 months
Root yields	13.0 t/ha
Adaptability	Does well in coastal lowland to mid altitude agro-ecologies
Resistance to pests	Moderately high to sweetpotato weevils
Resistance to diseases	Moderately high to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Elliptic
Skin colour	Predominant purple red, intensity dark
Dry matter	25-30%
Flesh colour (CIP colour chart)	Intermediate orange, (28C:18D)
β-carotene content	5000-6000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

MATHUTHU

Country of origin: Malawi
Pedigree: Mugamba x OP

36

GROWTH CHARACTERISTICS

Canopy or plant type	Semi - erect
Leaf	Green when young and mature; with purple veins under surface; 5 moderate lobes
Vine	Green with purple spots when young and mature, intermediate (5-6 cm) internodes, intermediate (5-6 cm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	25.0 t/ha
Adaptability	Well adapted to high to mid-altitude areas of Malawi
Resistance to pests	Moderate to sweetpotato weevil
Resistance to diseases	Tolerant to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Obovate
Skin colour	Purple
Dry matter	29.0%
Flesh colour (CIP colour chart)	Intermediate orange, (28D:28C)
β-carotene content	2900 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

MAYAI

Country of origin: Tanzania
Pedigree: Landrace

37

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, and purple when young, 3 moderately deep lobes
Vine	Green, short (3-5 cm) internodes, thin (4-6 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	3.5-4 months
Root yields	10.0 t/ha
Adaptability	Does well in low virus pressure zones
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Cream
Dry matter	32.5%
Flesh colour (CIP colour chart)	Intermediate orange, (29A:28C)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

MELINDA

IIAM–CIPBD006

(CIP 106763.1)

Country of origin: Mozambique

Pedigree: UW119 x OP

38

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Light green with purple leaf stalk and under veins, purple end margins for young leaves, 5 moderate deep lobes
Vine	Purple when old and light green apical part of the stem and hairy; very short (3-4 cm) internodes; intermediate (5-6 mm) diameter
Flowering ability and habits	Moderate profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	27.1 t/ha
Adaptability	Specifically adapted to Southern and Central Mozambique regions
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Cream
Dry matter	23.6%
Flesh colour (CIP colour chart)	Light orange, (25D:28C)
β-carotene content	5710 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

NAMANGA

IIAM CIPBD002

(CIP 106763.3)

Country of origin: Mozambique

Pedigree: UW119 x OP

39

GROWTH CHARACTERISTICS

Canopy or plant type	Semi - erect
Leaf	Green old leaves, green young leaves with purple margins, 5 slight lobes, green leaf stalk
Vine	Green vine, very short (≤3 cm) internodes, thin (4-5 mm) diameter
Flowering ability and habits	Early and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	19.3 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Cream
Dry matter	27.0%
Flesh colour	Intermediate orange, (28C:18B)
β-carotene content	8390 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

NASPOT 8

(CIP 100200.2)

Country of origin: Uganda

Pedigree: SPK004 x OP

40

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when mature, and green with purple edges when young; 6-7 deep lobes and lanceolate middle lobe, purplish veins on lower leaf surface
Vine	Green when mature; short (3-6 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	20 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevil
Resistance diseases	High to Alternaria stem blight and to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Purple red
Dry matter	32.5%
Flesh colour (CIP colour chart)	Intermediate orange, (28C: 18B)
β-carotene content	2878-4000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange and appealing to adults and children
Texture of boiled roots	Dry mouth feel
Taste	Moderately sweet

NASPOT 9 O

Farmers' name: Vita
(CIP 100200.3)
Country of origin: Uganda
Pedigree: SPK004 OP

41

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, and slightly purple when young, 7 deep leaf lobes
Vine	Green, with purple tips, short (3-5 cm) internodes, thin (<4 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	16.5 t/ha
Adaptability	Does well in most agroecologies in Uganda
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and high to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Obovate with longitudinal grooves
Skin colour	Purple red
Dry matter	30.1%
Flesh colour (CIP colour chart)	Deep orange, (28A: 29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

NASPOT 10 O

KABODE

(CIP 100200.4)

Country of origin: Uganda

Pedigree: SPK004 OP

42

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, and slightly purple when young, 7 moderate deep lobes
Vine	Green, with purple tip, short (3-5 cm) internodes, thin (<4 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	16.0 t/ha
Adaptability	Does well in most agroecologies of Uganda
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Purple red
Dry matter	30.5%
Flesh colour (CIP colour chart)	Deep orange, (28A: 29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

NASPOT 12 O

Country of origin: Uganda
Pedigree: SPK004 x OP

43

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green when mature, purple young tips; with triangular very slight (3-4) lobes
Vine	Green with few purple spots, very short (≤3 cm) internodes, thick (6-7 mm) diameter
Flowering ability and habits	Early and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	24.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Purple red
Dry matter	30.0%
Flesh colour (CIP colour chart)	Intermediate orange, (29A:28D)
β-carotene content	7230 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

NASPOT 13 O

Country of origin: Uganda
Pedigree: NASPOT 7 x OP

44

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when mature, with purple tips and 5 deep lobes
Vine	Light green when young and mature, very short (≤3 cm) internodes, moderate (5-6 mm) diameter
Flowering ability and habits	Early and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	38.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Elliptic
Skin colour	Cream
Dry matter	28.0%
Flesh colour (CIP colour chart)	Deep orange, (28A:29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange and appealing to children and adults
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

OLYMPIA

Country of origin: Zambia
Pedigree: V15 x OP (OP progeny from a polycross population)

45

GROWTH CHARACTERISTICS

Canopy or plant type	Erect
Leaf	Green when young and maature, pale green stalks; with 5 deep lobes
Vine	Green with purple shades on mature sections, short (4.0 cm) internode length, and intermediate (5 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	25.5 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Cream
Dry matter	31.0%
Flesh colour (CIP colour chart)	Orange with yellow, (28D:28C)
β-carotene content	4920 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Intermediate orange
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

PERSISTENTE
(MGCL01)

Country of origin: Mozambique
Pedigree: Landrance

46

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, 5 very deep lobes
Vine	Green when mature, long (4-7 cm) internodes, thin (3-5 mm) diameter
Flowering ability and habits	Moderate

MAJOR AGRONOMIC ATTRIBUTES

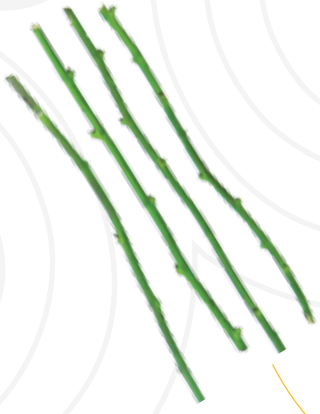
Maturity period	5 months
Root yields	5.0 t/ha
Adaptability	Does well in Central Mozambique
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	Moderately high to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Cream
Dry matter	37.0%
Flesh colour (CIP colour chart)	Dark orange, (28A:29A)
β-carotene content	11030 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Dark orange, appealing to adults and children
Texture of boiled roots	Floury and dry mouth feel
Taste	Very sweet



RESISTO
(CIP 440001)

Country of origin: USA
Pedigree: W72 x OP

47

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, purple when young; 3 moderate deep lobes
Vine	Green, very short (≤3 cm) internodes, moderate (4-7 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	15.8 t/ha
Adaptability	Does poorly under drought conditions
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and very low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Ovate
Skin colour	Pink
Dry matter	24.0%
Flesh colour (CIP colour chart)	Deep orange, (30D: 29B)
β-carotene content	16900-24900 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Soft mouth feel
Taste	Very sweet

RW11-2560
TERIMBERE

Country of origin: Rwanda
Pedigree: SPK004 x OP

48

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green when young; 5 moderate deep lobes
Vine	Green when mature; very short (≤3.0 cm) internodes, thin (4-6 mm) diameter
Flowering ability and habits	Early and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	20.0 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round
Skin colour	Cream
Dry matter	21.0%
Flesh colour (CIP colour chart)	Deep orange, (30D:29B)
β-carotene content	10500 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

RW11-2910
NDAMIRABANA

Country of origin: Rwanda
Pedigree: 97 – 062 x OP

49

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green with few purple spots when mature and purple young tips; hastate, 3-5 moderate deep lobes
Vine	Green when mature; short (3-5 cm) internodes, thin (4-6 mm) diameter
Flowering ability and habits	Early and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	20.0 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Purple red
Dry matter	31.13%
Flesh colour (CIP colour chart)	Light orange, (28D:28C)
β-carotene content	4100 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

SUMAIA
IIAM–CIPBD010
(CIP 106763.4)
Country of origin: Mozambique
Pedigree: UW119 x OP

50

GROWTH CHARACTERISTICS

Canopy or plant type	Semi-erect
Leaf	Green with purplish young leaves, green leaf stalk, 5 moderate deep lobes
Vine	Green when young and mature, short (2.5-4.0 cm) internodes; intermediate (6-7 mm) diameter
Flowering ability and habits	Sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	21.6 t/ha
Adaptability	Specific adapted in Chokwe (South/ Central of Mozambique) and Gurue (Central/North Mozambique)
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Root shape	Long elliptic
Root skin colour	Cream
Dry matter	25.2%
Flesh colour (CIP colour chart)	Deep orange, (30D:29B)
β-carotene content	7700 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

TAINUNG 64
(CIP 440189)

Country of origin: Taiwan
Pedigree: Uknown

51

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, deep purple young leaves, and no leaf lobes
Vine	Dark purple; very short (≤3 cm) internodes, moderate (4-6 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	15.0 t/ha
Adaptability	Limited and sensitive to moisture stress conditions
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	cream
Dry matter	23.0%
Flesh colour (CIP colour chart)	Orange, (29A: 28D)
β-carotene content	3760-7230 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

TIO JOE

IIAM-CIPBD001

(CIP 106769.1)

Country of origin: Mozambique

Pedigree: NC99573 x OP

52

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Light greeen when young and mature; heart shaped single lobe
Vine	Light green when mature, green with purple when young; intermediate (6-9 cm) internodes, thin (4-5 mm) diameter
Flowering ability and habits	Early and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	20.0 t/ha
Adaptability	Widely adapted
Resistance to pests	High to sweetpotato weevils
Resistance to diseases	High to sweetpotato virus disease

ROOT CHARACTERISTICS

Root shape	Long elleptic
Root skin colour	Brown
Dry matter	26.7%
Flesh colour (CIP colour chart)	Dark orange, (30D:29B)
β-carotene content	10320 µg/100g fwb

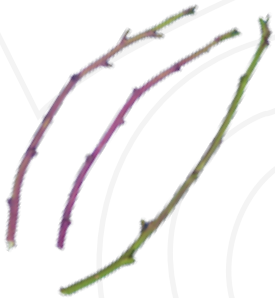
SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

TWATASHA

Country of origin: Zambia
Pedigree: LUS 103 x OP

53



GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green with pale purple when mature, purple when young, purple under leaf veins, heart-shaped single leaf lobe
Vine	Green with green tip; very short (≤2.5 cm) internode length, very thin (3.5 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	5 months
Root yields	20.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Pink
Dry matter	31.0%
Flesh colour (CIP colour chart)	Intermediate orange, (28A:29D)
β-carotene content	3760 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

UMUSPO/1
King J

Country of origin: Nigeria
Pedigree: CIP 199004.2 x OP

54

GROWTH CHARACTERISTICS

Canopy or plant type	Erect
Leaf	Deep green when mature and green with purple edges when young
Vine	Predominant vine colour: green when mature; intermediate (3-6 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Very sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	Over 25.0
Adaptability	Widely adapted across the agro-ecologies from the humid forest in Southern Nigeria to the Northern Guinea Savannahs
Resistance to pests	Moderately resistant to weevils
Resistance to diseases	Moderate to Alternaria blight and very low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Pink
Dry matter	36.3%
Flesh colour (CIP colour chart)	Light orange (25D:23D)
β-carotene content	700 - 1650 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

UMUSP0/3

Mothers' delight

Clonal introduction from CIP
Pedigree: Uncertain

55

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Light green when young and mature; heart shaped single lobe
Vine	Light green when mature, green with purple edge when young; long (5-11 cm) internodes, thin (3-5 mm) diameter
Flowering ability and habits	Early and moderately profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	31.4 t/ha
Adaptability	Does well in low SPVD pressure ecologies of Southern Guinea to the Northern Sudan savannahs
Resistance to pests	Tolerant sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Orange
Dry matter	22%
Flesh colour (CIP colour chart)	Deep orange, (30D:29B)
β-carotene content	10500-14370 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

W-119
(CIP 440004)

Country of origin: USA
Pedigree: W72 x OP

56

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Green when mature, 3 moderately deep lobes
Vine	Green, intermediate (5-7 cm) internodes, very thin (2.4-3.0 mm) diameter
Flowering ability and habits	Profuse

MAJOR AGRONOMIC ATTRIBUTES

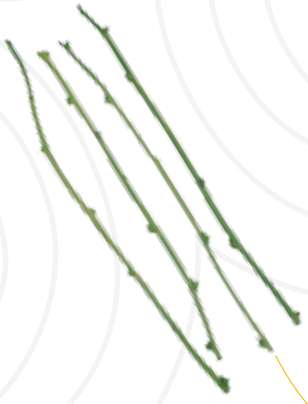
Maturity period	4 months
Root yields	19.5 t/ha
Adaptability	Widely adapted in South African agro-ecologies
Resistance to pests	Intermediate to sweetpotato weevils
Resistance to diseases	Low to sweetpotato virus, sensitive to Alternaria blight

ROOT CHARACTERISTICS

Shape	Long elliptic
Skin colour	Purple
Dry matter	25.0%
Flesh colour (CIP colour chart)	Orange, (30D:29B)
β-carotene content	8806 - 12978 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange with slight discoloration
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet



W-151
(CIP 440005)

Country of origin: USA
Pedigree: Uknown

57

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, with purple veins
Vine	Green, short (3.5-5.0 cm) internodes, and very thin (3-4 mm) diameter
Flowering ability and habits	Early and profuse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	3-4 months
Root yields	18.0 t/ha
Adaptability	Does well in mid-altitude areas
Resistance to pests	Low to sweetpotato weevil
Resistance to diseases	Low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Purple red
Dry matter	28.0%
Flesh colour (CIP colour chart)	Deep orange, (30D:29B)
β-carotene content	10500-14370 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Very sweet

ZAMBEZI

Country of origin: Zambia
Pedigree: TIS2537 x OP

58

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, deep purple young leaves, triangular with very slight lobes
Vine	Green with purple spots, short (3-5 cm) internodes, very thin (<4 mm) diameter
Flowering ability and habits	Early and moderate

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	15.1 t/ha
Adaptability	Does well in most areas except drought-prone ones
Resistance to pests	Low to sweetpotato weevils
Resistance to diseases	Moderate to Alternaria blight and very low to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Round elliptic
Skin colour	Pink
Dry matter	28.5%
Flesh colour (CIP colour chart)	Deep orange, (29A:28D)
β-carotene content	10900 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep orange, appealing to children
Texture of boiled roots	Moderate dry mouth feel
Taste	Moderately sweet

ZONDENI

Also called Kampalendo, Kantedza, Nyamatanga, Kalonga and Yamasumbi in Malawi
Country of origin: Malawi (Preliminary molecular finger prints suggest Zondeni and Ejumula are duplicates)
Pedigree: Uknown

59

GROWTH CHARACTERISTICS

Canopy or plant type	Spreading
Leaf	Light green when mature, purple margins on young leaves; 3-4 moderate deep lobes
Vine	Light green when young and mature, short (3.5-5.0 cm) internodes, intermediate (5-6 mm) diameter
Flowering ability and habits	Late and sparse

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	6 months
Root yields	8.0 – 16.0 t/ha
Adaptability	High to mid altitudes of Malawi
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato virus disease

ROOT CHARACTERISTICS

Shape	Long irregular
Skin colour	Cream
Dry matter	30.0 – 32.0%
Flesh colour (CIP colour chart)	Deep orange, (30D:29B)
β-carotene content	9000 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Deep Orange
Texture of boiled roots	Dry and floury mouth feel
Taste	Moderately sweet

199062.1
CRI-BOHYE in Ghana
(CIP 199062.1)
Country of origin: Peru
Pedigree: SPV78.001.3 x OP

60

GROWTH CHARACTERISTICS

Canopy or plant type	Non-twining and semi-erect
Leaf	Green when mature, 5 deep lobes; a large middle lobe
Vine	Green, moderate (3-6 cm) internodes, thin (3-5 mm) diameter
Flowering ability and habits	Moderate

MAJOR AGRONOMIC ATTRIBUTES

Maturity period	4 months
Root yields	22.0 t/ha
Adaptability	Widely adapted
Resistance to pests	Moderate to sweetpotato weevils
Resistance to diseases	Moderate to sweetpotato viruses

ROOT CHARACTERISTICS

Shape	Ovate/Obovate
Skin colour	Pale purple
Dry matter	31.0%
Flesh colour (CIP colour chart)	Intermediate orange, (29A: 28D)
β-carotene content	3760-7230 µg/100g fwb

SENSORY CHARACTERISTICS

Colour of boiled roots	Light orange, appealing to adults and children
Texture of boiled roots	Moderate dry mouth feel
Taste	Sweet

IMPORTANCE

Additional Information

61

ADDITIONAL INFORMATION

Variety	Importance
1. Amelia	• Released in Mozambique and grown by farmers for home food and income
2. Ana Akwanire	• Released in Malawi and is grown by farmers for home food and income. It is a late maturing variety and therefore suitable for high rainfall areas
3. Bela	• Released in Mozambique and grown by farmers for home food and commercial purposes • Currently used as a parent in the crossing block in Mozambique
4. Caromex	• Released and grown by farmers in Mozambique
5. Carrot C	• Not released, but grown by farmers in Tanzania • Used as a parent to improve β-carotene and root dry matter in Uganda, Kenya, Mozambique, Rwanda, and Tanzania
6. Chiwoko	• Has been tabled for release in Zambia, and is currently being grown by farmers for home food and income • Used as parent in the crossing block in Zambia to improve β-carotene content
7. Cecilia	• Released in Mozambique and grown by farmers for home food and income • Currently used as a parent in the crossing block in Mozambique
8. CN-1424-9	• Released and grown by farmers in Mozambique
9. CN 1448-49	• Released and grown by farmers in Mozambique
10. Cordner	• Released and grown by farmers in Mozambique
11. CRI-Apomuden	• Released and promoted in Ghana
12. Delvia	• Released in Mozambique and grown by farmers for home food and commercial purposes

Variety	Importance
13. Ejumula	• Released in Uganda, Madagascar, Mozambique and Tanzania and near release in Kenya and Rwanda • Used as a parent to improve β-carotene and root dry matter in Uganda, Kenya, Mozambique, Rwanda, Tanzania
14. Erica	• Released in Mozambique and grown by farmers for home food and commercial purposes • Currently used as a parent in the crossing block in Mozambique
15. Esther	• Released in Mozambique and grown by farmers for home food and income • Currently used as a parent in the crossing block in Mozambique
16. Gaba Gaba	• Released and grown by farmers in Mozambique
17. Impilo	• Released and promoted in South Africa
18.Ininda	• Released in Mozambique and grown by farmers for home food and income
19. Irene	• Released in Mozambique and grown by farmers for home food and income
20. Jane	• Released in Mozambique and grown by farmers for home food and commercial purposes
21. Japones Tresmesino Selecto	• Released and grown by farmers in Mozambique
22. Jewel	• Promoted in Tanzania and grown for home food • Used as a parent in many countries to improve β-carotene content
23. Kadyaubwerere	• Released in Malawi (in 2011) and is grown by farmer for home food and income • Used as a parent in the crossing block to generate breeding populations with high contents of β-carotene and dry matter
24. Kakamega	• Released in Uganda, Kenya, Rwanda and Tanzania • Used as a parent to improve β-carotene and root dry matter content
25. Kandee	• Released and grown by farmers in Mozambique

IMPORTANCE

Additional Information

Variety	Importance
26. Kaphulira	• Released in Malawi (in 2011) and is grown by farmers for home food and income. • Matures very early and therefore ideal for piecemeal harvesting. • Used as a parent in the crossing block to generate breeding populations with high contents of β-carotene and dry matter.
27. KENSPOT-3	• Released in Kenya for food and income in the highlands • Currently used as a parent in the crossing block
28. KENSPOT-4	• Released in Kenya for food and incomes in highlands • Currently used as a parent in the crossing block
29. KENSPOT-5	• Released in Kenya for food and incomes in highlands
30. Khano	• Released in South Africa • Not used for production, only used as parent in generating crosses. Has very soft skin and vulnerable to skin damage
31. Kiegea	• Released in Tanzania and is grown for food and income • Currently being used as a parent in the crossing block in Tanzania
32. K566632	• Near release in Kenya • Used as a parent in Uganda, Tanzania, Kenya to improve β-carotene levels
33. Lourdes	• Released in Mozambique and grown by farmers for home food and income
34. Lo-323	• Released and grown by farmers in Mozambique
35. Mataya	• Released in Tanzania and is grown for food and income • Currently being used as a parent in the crossing block in Tanzania
36. Mathuthu	• Released in Malawi and is grown by farmers for home food and income. It is also used as a parent in the crossing block to generate breeding populations with high content of β-carotene and dry matter
37. Mayai	• Grown by farmers in Zanzibar Island and coastal Tanzania • Used as a parent in Uganda, Kenya, Tanzania to improve β-carotene and root dry matter

IMPORTANCE

Additional Information

Variety	Importance
38. Melinda	• Released in Mozambique and grown by farmers for home food and income • Currently used as a parent in the crossing block in Mozambique
39. Namanga	• Released in Mozambique and grown by farmers for home food and income • Currently used as a parent in the crossing block in Mozambique
40. NASPOT 8	• Released in Uganda and is grown by farmers for food and income. It is also being used as a parent in the crossing block to improve β-carotene content, dry matter and resistance to sweetpotato virus disease.
41. NASPOT 9 O	• Released in Uganda and Kenya, and is also being tested in Tanzania, Rwanda, Ethiopia, and Mozambique
42. NASPOT 10 O	• Released in Uganda and also being tested in Uganda and Kenya and is also being tested in Tanzania and Rwanda
43. NASPOT 12 O	• Released in Uganda and is grown by farmers for food and income • Currently used as a parent in the crossing block in Uganda
44. NASPOT 13 O	• Released in Uganda for food and income • Currently used as a parent in the crossing block in Uganda
45. Olympia	• Has been tabled for release in Zambia, and is already being grown by farmers for its good quality leaf vegetable and roots for home food and income • Used as a parent in the crossing block in Zambia to improve quality leaf vegetable
46. Persistente	• Released and grown by farmers in Mozambique
47. Resisto	• Released in Mozambique, South Africa, Madagascar • Used as a parent to improve β-carotene content in Uganda, Kenya, Rwanda, Ghana, Mozambique, South Africa, Tanzania and Zambia
48. RW11-2560	• Released in Rwanda and is grown by farmers for food and income
49. RW11-2910	• Released in Rwanda and is grown by farmers for food and income
50. Sumaia	• Released in Mozambique and grown by farmers for home food and commercial purposes • Currently used as a parent in the crossing block in Mozambique

IMPORTANCE

Additional Information

Variety	Importance
51. Tainung 64	• Released and grown by farmers in Mozambique • Currently used as a parent in the crossing block in Mozambique
52. Tio Joe	• Released in Mozambique and grown by farmers for food and income • Currently used as a parent in the crossing block in Mozambique
53. Twatasha	• Has been tabled for release in Zambia, and is currently being grown by farmers for home food and income • Used as a parent in the crossing block in Zambia to improve β-carotene content
54. Umuspo/1	• Released in Nigeria and is grown by farmers for food and income
55. Umuspo/3	• Released in Nigeria and is grown by farmers for food and income • Currently used as a parent in the crossing block in Nigeria
56. W-119	• Released and promoted in South Africa
57. W-151	• Advanced and promising in Kenya
58. Zambezi	• Released in Zambia and Madagascar • Used as a parent to improve β-carotene content
59. Zondeni	• Released in Malawi (in 2008) and is grown by farmer for home food and income. It is also used as a parent in the crossing block to generate breeding populations with high content of β-carotene and dry matter
60. 199062.1	• Released in Mozambique, Madagascar, and Ghana where it is grown for home food and income. Promoted in South Africa where it is grown by farmers for food and income. • Used as a parent to improve root yield performance

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