TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	5/1/2018
End_date	10/1/2018
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
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Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Alisha
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Chordate (heart-shaped)
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	Orange
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	Covering most of the flesh
Storage Root Cortex Thickness estimating 1-9	Very thin (1 mm)
Dry Matter %	28.4
Protein (%)	3.2207375
b-carotene (mg/100g) DW (Lima)	15.0648956
Fe (mg/100g) DW	1.5515494
Zn (mg/100g) DW	1.0331774
Ca (mg/100g) DW	64.8985596
Mg (mg/100g) DW	63.8545227
Starch (%)	64.9797211
Fructose (%)	2.4640503
Glucose (%)	3.2802305
Sucrose (%)	9.5421801
Maltose (%)	0.1903753

TRIAL METADATA	
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Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Amelia
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	8
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	27.8
Protein (%)	3.4522362
b-carotene (mg/100g) DW (Lima)	41.6528625
Fe (mg/100g) DW	1.6077533
Zn (mg/100g) DW	1.0330958
Ca (mg/100g) DW	69.1977539
Mg (mg/100g) DW	73.1031342
Starch (%)	66.0068665
Fructose (%)	1.6003141
Glucose (%)	2.6166196
Sucrose (%)	10.0749836
Maltose (%)	0.6420536

TRIAL METADATA	
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Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Anaakwanire
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	25.2
Protein (%)	3.2137604
b-carotene (mg/100g) DW (Lima)	40.7826004
Fe (mg/100g) DW	1.5869861
Zn (mg/100g) DW	1.1499381
Ca (mg/100g) DW	56.6346436
Mg (mg/100g) DW	80.6182556
Starch (%)	64.3555069
Fructose (%)	1.8657923
Glucose (%)	3.5359364
Sucrose (%)	11.6570883
Maltose (%)	0.5926657

TRIAL METADATA

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Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Anamaria
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Linear (narrow)
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	26.6
Protein (%)	3.8137264
b-carotene (mg/100g) DW (Lima)	16.7075043
Fe (mg/100g) DW	1.474072
Zn (mg/100g) DW	1.1754088
Ca (mg/100g) DW	41.8693848
Mg (mg/100g) DW	50.5231781
Starch (%)	70.2057724
Fructose (%)	1.2871513
Glucose (%)	2.0242028
Sucrose (%)	6.8635035
Maltose (%)	0.749382

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Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
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Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Awassa-83
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Low (<50%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thick (10-12 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	#NULL!
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	26.4
Protein (%)	3.2857285
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.5884399
Zn (mg/100g) DW	1.1757922
Ca (mg/100g) DW	63.3336182
Mg (mg/100g) DW	70.5483398
Starch (%)	70.8309097
Fructose (%)	1.2496052
Glucose (%)	1.7978667
Sucrose (%)	6.8957157
Maltose (%)	0.8309698

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Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Bela
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Oblanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Slightly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Obovate
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	23.6
Protein (%)	2.1964531
b-carotene (mg/100g) DW (Lima)	8.7859955
Fe (mg/100g) DW	1.4694982
Zn (mg/100g) DW	0.9447846
Ca (mg/100g) DW	138.9362793
Mg (mg/100g) DW	87.3558655
Starch (%)	60.6204758
Fructose (%)	7.1764574
Glucose (%)	9.5074511
Sucrose (%)	5.8813
Maltose (%)	0.4196329

TRIAL METADATA	
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Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
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Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	BF13xCIP3
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Low (<50%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Very thin (<4 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Very short (<10 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	Pink
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	20.2
Protein (%)	2.7105331
b-carotene (mg/100g) DW (Lima)	12.4611206
Fe (mg/100g) DW	1.7340755
Zn (mg/100g) DW	1.1142259
Ca (mg/100g) DW	65.692749
Mg (mg/100g) DW	94.5786896
Starch (%)	55.7530327
Fructose (%)	6.9752169
Glucose (%)	10.5056562
Sucrose (%)	7.4357815
Maltose (%)	0.4369059

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
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Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	BF59xCIP1
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	#NULL!
Predominant Skin color estimating 1-9	-7
Intensity of Predominant Skin color estimating 1-3	0
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	-6
Secondary Flesh color estimating 0-9	-3
Distribution of Secondary Flesh color estimating 0-9	-2
Storage Root Cortex Thickness estimating 1-9	#NULL!
Dry Matter %	20.8
Protein (%)	1.6071281
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.3160262
Zn (mg/100g) DW	0.7821403
Ca (mg/100g) DW	62.9769287
Mg (mg/100g) DW	86.5431976
Starch (%)	53.8075562
Fructose (%)	10.3192015
Glucose (%)	14.2695684
Sucrose (%)	4.2422962
Maltose (%)	0

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	BF59xCIP4
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	#NULL!
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	1 Lobe
Shape of Central Leaf Lobe estimating 0-9	Toothed
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Obovate
Predominant Skin color estimating 1-9	Brownish orange
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	17.2
Protein (%)	2.0601406
b-carotene (mg/100g) DW (Lima)	20.9023895
Fe (mg/100g) DW	1.5752568
Zn (mg/100g) DW	0.9211984
Ca (mg/100g) DW	88.8865967
Mg (mg/100g) DW	90.3784637
Starch (%)	44.1787376
Fructose (%)	11.6869402
Glucose (%)	16.3407745
Sucrose (%)	11.311635
Maltose (%)	0

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Bie
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Totally dark purple
Secondary Vine Co	Absent
Vine Tips Pubesce	Absent
Vine internode dia	Thin (4-6 mm)
Vine internode ler	Short (3-5 cm)
General Outline of	Triangular
Leaf Lobes Type es	Very slight (teeth)
Leaf Lobe Number	7 Lobe
Shape of Central L	Triangular
Abaxial Leaf Vein I	All veins mostly or totally purple
Immature Leaf Col	Slightly purple
Mature Leaf Color	Green with purple edge
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Totally or mostly purple
Flower color estim	Pale purple limb with purple throat
Storage Root Shap	Long irregular or curved
Predominant Skin	Dark purple
Intensity of Predo	Dark
Secondary Skin co	#NULL!
Predominant Flesh	Cream
Secondary Flesh co	Purple
Distribution of Sec	Covering all flesh
Storage Root Corte	Intermediate (2-3 mm)
Dry Matter %	32.8
Protein (%)	2.4373569
b-carotene (mg/1	
Fe (mg/100g) DW	1.1813202
Zn (mg/100g) DW	0.8440819
Ca (mg/100g) DW	69.109375
Mg (mg/100g) DV	66.2722778
Starch (%)	72.0241089
Fructose (%)	1.6548729
Glucose (%)	2.4894848
Sucrose (%)	9.3182783
Maltose (%)	0.277689

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Bita
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	8
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Round elliptic
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	White
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Dark purple
Distribution of Secondary Flesh color estimating 0-9	#NULL!
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	30.4
Protein (%)	3.0762253
b-carotene (mg/100g) DW (Lima)	
Fe (mg/100g) DW	1.904212
Zn (mg/100g) DW	0.8881459
Ca (mg/100g) DW	70.3837891
Mg (mg/100g) DW	62.8647156
Starch (%)	72.981308
Fructose (%)	2.3203392
Glucose (%)	2.9726148
Sucrose (%)	9.1803846
Maltose (%)	0.4260197

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Blesbok
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	19.4
Protein (%)	2.3263817
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.5455003
Zn (mg/100g) DW	1.0309763
Ca (mg/100g) DW	126.3106689
Mg (mg/100g) DW	78.2330933
Starch (%)	63.8036346
Fructose (%)	5.8941545
Glucose (%)	8.1441994
Sucrose (%)	4.7417755
Maltose (%)	0.2021856

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Blueblue
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Dark cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	27.2
Protein (%)	2.547472
b-carotene (mg/100g) DW (Lima)	5.1904449
Fe (mg/100g) DW	1.3910136
Zn (mg/100g) DW	1.0037446
Ca (mg/100g) DW	17.0830078
Mg (mg/100g) DW	59.979538
Starch (%)	65.9952393
Fructose (%)	1.8527861
Glucose (%)	2.7686028
Sucrose (%)	11.7419167
Maltose (%)	0.6884737

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Bohye
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Slightly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Very short (<10 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	-6
Predominant Skin color estimating 1-9	-5
Intensity of Predominant Skin color estimating 1-3	-2
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	-7
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	#NULL!
Dry Matter %	23.8
Protein (%)	2.5197086
b-carotene (mg/100g) DW (Lima)	22.3820496
Fe (mg/100g) DW	1.3787642
Zn (mg/100g) DW	0.9227223
Ca (mg/100g) DW	26.4959717
Mg (mg/100g) DW	70.3278198
Starch (%)	63.2846031
Fructose (%)	2.9745417
Glucose (%)	4.0376711
Sucrose (%)	11.1108866
Maltose (%)	0.585968

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	ButterMilk
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Low (<50%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Hastate
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	30
Protein (%)	2.1047783
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.3206978
Zn (mg/100g) DW	0.7659855
Ca (mg/100g) DW	30.1704102
Mg (mg/100g) DW	52.7573242
Starch (%)	67.9653702
Fructose (%)	3.9580383
Glucose (%)	5.1903796
Sucrose (%)	6.2928238
Maltose (%)	0.6317883

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Caelan
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Large (16-25 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Purple
Distribution of Secondary Flesh color estimating 0-9	Covering most of the flesh
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	20.2
Protein (%)	2.3087502
b-carotene (mg/100g) DW (Lima)	21.266983
Fe (mg/100g) DW	1.4585161
Zn (mg/100g) DW	0.909255
Ca (mg/100g) DW	97.8061523
Mg (mg/100g) DW	91.7158356
Starch (%)	56.1265259
Fructose (%)	7.585597
Glucose (%)	10.5988817
Sucrose (%)	7.3011961
Maltose (%)	0.2701979

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Camp3
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	33
Protein (%)	2.5475426
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.0918074
Zn (mg/100g) DW	0.7356381
Ca (mg/100g) DW	70.8944092
Mg (mg/100g) DW	51.8012085
Starch (%)	78.5754013
Fructose (%)	1.1861792
Glucose (%)	1.7198972
Sucrose (%)	2.9954503
Maltose (%)	0.6445723

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Cecilia
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Obovate
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	Covering most of the flesh
Storage Root Cortex Thickness estimating 1-9	Very thin (1 mm)
Dry Matter %	25.2
Protein (%)	2.2391434
b-carotene (mg/100g) DW (Lima)	5.3741455
Fe (mg/100g) DW	1.1935034
Zn (mg/100g) DW	0.8154459
Ca (mg/100g) DW	33.489502
Mg (mg/100g) DW	75.2587433
Starch (%)	63.0043793
Fructose (%)	6.1538496
Glucose (%)	8.6837301
Sucrose (%)	7.3482037
Maltose (%)	0.3291159

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Chipika
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Chordate (heart-shaped)
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	28.4
Protein (%)	4.1156883
b-carotene (mg/100g) DW (Lima)	12.4710693
Fe (mg/100g) DW	1.5485353
Zn (mg/100g) DW	0.9676614
Ca (mg/100g) DW	43.9949951
Mg (mg/100g) DW	57.7679138
Starch (%)	69.5619354
Fructose (%)	1.5999374
Glucose (%)	2.1570988
Sucrose (%)	7.3666496
Maltose (%)	0.4695015

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Chumfwa
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Green tip
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	No lateral lobes (entire)
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Very thick (>4 mm)
Dry Matter %	31
Protein (%)	3.3117142
b-carotene (mg/100g) DW (Lima)	34.2141113
Fe (mg/100g) DW	1.5546465
Zn (mg/100g) DW	1.0044041
Ca (mg/100g) DW	83.6728516
Mg (mg/100g) DW	84.4178314
Starch (%)	63.2572517
Fructose (%)	2.3815594
Glucose (%)	3.6367989
Sucrose (%)	12.6427937
Maltose (%)	0.7165565

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	CIP199062.1
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Obovate
Predominant Skin color estimating 1-9	Brownish orange
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	Covering most of the flesh
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	25
Protein (%)	2.6779461
b-carotene (mg/100g) DW (Lima)	24.3072968
Fe (mg/100g) DW	1.4703474
Zn (mg/100g) DW	0.8812671
Ca (mg/100g) DW	49.5107422
Mg (mg/100g) DW	62.0430603
Starch (%)	63.4957466
Fructose (%)	2.9465904
Glucose (%)	3.8247561
Sucrose (%)	11.467803
Maltose (%)	0.7137127

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Danzaria
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Reniform (kidney-shaped)
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Toothed
Abaxial Leaf Vein Pigmentation estimating 1-9	Yellow
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	31.8
Protein (%)	2.3502941
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2953577
Zn (mg/100g) DW	0.862237
Ca (mg/100g) DW	63.8671875
Mg (mg/100g) DW	60.6272278
Starch (%)	69.0204544
Fructose (%)	1.929162
Glucose (%)	2.791821
Sucrose (%)	10.1123009
Maltose (%)	0.7298183

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Delvia
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Very thin (<4 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Linear (narrow)
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	29.8
Protein (%)	3.0358963
b-carotene (mg/100g) DW (Lima)	31.3002472
Fe (mg/100g) DW	1.3774858
Zn (mg/100g) DW	0.9362602
Ca (mg/100g) DW	36.4158936
Mg (mg/100g) DW	67.1461639
Starch (%)	66.4973221
Fructose (%)	3.120904
Glucose (%)	4.8910236
Sucrose (%)	8.366909
Maltose (%)	0.7647629

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Dimbuka-Bukulula
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	25.4
Protein (%)	4.0077362
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.9855227
Zn (mg/100g) DW	1.1163998
Ca (mg/100g) DW	164.2336426
Mg (mg/100g) DW	78.9762421
Starch (%)	62.9174271
Fructose (%)	2.0923347
Glucose (%)	2.48669
Sucrose (%)	13.1752138
Maltose (%)	0.7280045

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Djakani
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Green with many purple spots
Secondary Vine Co	Purple nodes
Vine Tips Pubesce	Moderate
Vine internode dia	Thin (4-6 mm)
Vine internode ler	Intermediate (6-9 cm)
General Outline of	Lobed
Leaf Lobes Type es	Deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Elliptic
Abaxial Leaf Vein I	All veins mostly or totally purple
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Green with purple both ends
Flower color estim	#NULL!
Storage Root Shap	Elliptic
Predominant Skin	Cream
Intensity of Predo	Intermediate
Secondary Skin co	#NULL!
Predominant Flesh	White
Secondary Flesh co	Absent
Distribution of Sec	Absent
Storage Root Corte	Thin (1-2 mm)
Dry Matter %	28
Protein (%)	2.0613136
b-carotene (mg/1	0
Fe (mg/100g) DW	1.3719745
Zn (mg/100g) DW	0.9021959
Ca (mg/100g) DW	42.9030762
Mg (mg/100g) DV	75.430954
Starch (%)	64.8575516
Fructose (%)	3.5253973
Glucose (%)	5.4848175
Sucrose (%)	9.3444376
Maltose (%)	0.5576668

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Ejumula
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	29.8
Protein (%)	4.0371399
b-carotene (mg/100g) DW (Lima)	34.6000671
Fe (mg/100g) DW	1.5592704
Zn (mg/100g) DW	1.1610522
Ca (mg/100g) DW	115.0101318
Mg (mg/100g) DW	79.3201752
Starch (%)	69.0745087
Fructose (%)	1.105813
Glucose (%)	2.596704
Sucrose (%)	8.8378744
Maltose (%)	0.6190767

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Erica
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Purple tip
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	18.4
Protein (%)	2.2454929
b-carotene (mg/100g) DW (Lima)	28.1609192
Fe (mg/100g) DW	1.4468045
Zn (mg/100g) DW	0.8922715
Ca (mg/100g) DW	101.4257813
Mg (mg/100g) DW	86.3303375
Starch (%)	54.0872192
Fructose (%)	7.0250692
Glucose (%)	9.4125004
Sucrose (%)	10.3928051
Maltose (%)	0.3768768

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Esther
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	Scattered spots in flesh
Storage Root Cortex Thickness estimating 1-9	Very thin (1 mm)
Dry Matter %	19.4
Protein (%)	1.4931889
b-carotene (mg/100g) DW (Lima)	0.2061768
Fe (mg/100g) DW	1.2394352
Zn (mg/100g) DW	0.6927042
Ca (mg/100g) DW	58.59729
Mg (mg/100g) DW	72.2937775
Starch (%)	53.5101242
Fructose (%)	10.4806395
Glucose (%)	13.7817507
Sucrose (%)	5.9853764
Maltose (%)	0.2089911

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Ex-Igbariam
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Purple tip
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Chordate (heart-shaped)
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	32.6
Protein (%)	4.9545498
b-carotene (mg/100g) DW (Lima)	5.3638306
Fe (mg/100g) DW	1.664444
Zn (mg/100g) DW	1.1238141
Ca (mg/100g) DW	96.4422607
Mg (mg/100g) DW	84.8271332
Starch (%)	67.5229721
Fructose (%)	1.1931353
Glucose (%)	1.891904
Sucrose (%)	11.251256
Maltose (%)	0.7669916

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Faara
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Mostly dark purple
Secondary Vine Color estimating 0-7	Green tip
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	32.8
Protein (%)	3.0455647
b-carotene (mg/100g) DW (Lima)	3.5404205
Fe (mg/100g) DW	1.3525529
Zn (mg/100g) DW	0.8935022
Ca (mg/100g) DW	44.0338135
Mg (mg/100g) DW	61.42099
Starch (%)	70.6147919
Fructose (%)	2.6697798
Glucose (%)	3.8816361
Sucrose (%)	6.3354778
Maltose (%)	0.7011642

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Fardagan
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	4
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Ovate
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	White
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	26.6
Protein (%)	2.4072647
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2650852
Zn (mg/100g) DW	0.9505253
Ca (mg/100g) DW	88.5145264
Mg (mg/100g) DW	62.102951
Starch (%)	71.6257782
Fructose (%)	1.6870527
Glucose (%)	2.7794695
Sucrose (%)	8.0058823
Maltose (%)	0.6575508

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Gihingamukungu
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Reniform (kidney-shaped)
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Toothed
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Obovate
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	Covering most of the flesh
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	26.4
Protein (%)	2.8103046
b-carotene (mg/100g) DW (Lima)	15.8540802
Fe (mg/100g) DW	1.4598851
Zn (mg/100g) DW	0.871829
Ca (mg/100g) DW	97.4182129
Mg (mg/100g) DW	81.5115204
Starch (%)	62.5842514
Fructose (%)	5.3923492
Glucose (%)	7.7213073
Sucrose (%)	8.6350031
Maltose (%)	0.2642412

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Ininda
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Almost divided
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Linear (narrow)
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Other
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	Ring and other areas in flesh
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	22.8
Protein (%)	0.8665791
b-carotene (mg/100g) DW (Lima)	39.3044739
Fe (mg/100g) DW	1.1602006
Zn (mg/100g) DW	0.5838623
Ca (mg/100g) DW	167.1547852
Mg (mg/100g) DW	0
Starch (%)	52.7483444
Fructose (%)	12.6455622
Glucose (%)	15.0526247
Sucrose (%)	0.8899403
Maltose (%)	1.1647892

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Irene
Plant Type estima	Erect (<75 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Totally dark purple
Secondary Vine Co	Green tip
Vine Tips Pubesce	Absent
Vine internode dia	Thin (4-6 mm)
Vine internode ler	Short (3-5 cm)
General Outline of	Almost divided
Leaf Lobes Type es	Very deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Linear (broad)
Abaxial Leaf Vein I	All veins mostly or totally purple
Immature Leaf Col	Slightly purple
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Totally or mostly purple
Flower color estim	Pale purple limb with purple throat
Storage Root Shap	Ovate
Predominant Skin	Dark purple
Intensity of Predo	Intermediate
Secondary Skin co	#NULL!
Predominant Flesh	Intermediate orange
Secondary Flesh co	Absent
Distribution of Sec	Absent
Storage Root Corte	Intermediate (2-3 mm)
Dry Matter %	26
Protein (%)	3.0808163
b-carotene (mg/1	33.3239212
Fe (mg/100g) DW	1.3936143
Zn (mg/100g) DW	0.9175997
Ca (mg/100g) DW	60.411377
Mg (mg/100g) DV	67.6569519
Starch (%)	65.495697
Fructose (%)	2.4858961
Glucose (%)	3.5065188
Sucrose (%)	10.848093
Maltose (%)	0.7260113

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desigr	Randomized Complete Block Design
Experimental_desigr	RCBD
Number_of_replicat	4
Block_size_(applicat	NA
Experimental_Enviro	Field
Number_of_plants_	10

Common Name	Ivone
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near steam
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	23.6
Protein (%)	1.8772583
b-carotene (mg/100g) DW (Lima)	23.9327393
Fe (mg/100g) DW	1.4306693
Zn (mg/100g) DW	0.9112816
Ca (mg/100g) DW	100.1235352
Mg (mg/100g) DW	81.9448242
Starch (%)	61.1402473
Fructose (%)	3.9430552
Glucose (%)	5.5109315
Sucrose (%)	11.6165562
Maltose (%)	0.5155125

Common Name	Jane
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	Total (> 90%)
Predominant Vine	Totally dark purple
Secondary Vine Co	Absent
Vine Tips Pubesce	Moderate
Vine internode dia	Thin (4-6 mm)
Vine internode len	Short (3-5 cm)
General Outline of	Almost divided
Leaf Lobes Type es	Very deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Linear (narrow)
Abaxial Leaf Vein I	Main rib partially purple
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green
Mature Leaf Size e	Large (16-25 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Totally or mostly purple
Flower color estim	#NULL!
Storage Root Shap	Long oblong
Predominant Skin	Cream
Intensity of Predo	Intermediate
Secondary Skin co	#NULL!
Predominant Flesh	Intermediate orange
Secondary Flesh co	Absent
Distribution of Sec	Absent
Storage Root Corte	Intermediate (2-3 mm)
Dry Matter %	23.4
Protein (%)	2.5301495
b-carotene (mg/1	26.5760345
Fe (mg/100g) DW	1.5856795
Zn (mg/100g) DW	0.9433188
Ca (mg/100g) DW	69.3676758
Mg (mg/100g) DV	92.7581482
Starch (%)	61.0360603
Fructose (%)	4.1974096
Glucose (%)	6.1684494
Sucrose (%)	10.5538635
Maltose (%)	0.4652719

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Kabbia
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Totally purple
Secondary Vine Co	Absent
Vine Tips Pubesce	Sparse
Vine internode dia	Intermediate (7-9 mm)
Vine internode ler	Intermediate (6-9 cm)
General Outline of	Lobed
Leaf Lobes Type es	Deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Semi-elliptic
Abaxial Leaf Vein I	Main rib mostly or totally purple
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Intermediate (21-30 cm)
Petiole Pigmentat	Green with purple spots throughout petiole
Flower color estim	Pale purple limb with purple throat
Storage Root Shap	Long oblong
Predominant Skin	Dark purple
Intensity of Predo	Dark
Secondary Skin co	#NULL!
Predominant Flesh	Cream
Secondary Flesh co	Purple
Distribution of Sec	Scattered spots in flesh
Storage Root Corte	Very thick (>4 mm)
Dry Matter %	17.6
Protein (%)	1.7578411
b-carotene (mg/1	purple
Fe (mg/100g) DW	1.4724841
Zn (mg/100g) DW	0.8802886
Ca (mg/100g) DW	84.8356934
Mg (mg/100g) DV	105.9884338
Starch (%)	47.6372757
Fructose (%)	12.4146128
Glucose (%)	17.4233036
Sucrose (%)	5.6140795
Maltose (%)	0

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Kadyaubwerere
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Oblanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Round elliptic
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Very thick (>4 mm)
Dry Matter %	26.4
Protein (%)	2.5854378
b-carotene (mg/100g) DW (Lima)	20.154068
Fe (mg/100g) DW	1.6748481
Zn (mg/100g) DW	1.0443273
Ca (mg/100g) DW	88.175293
Mg (mg/100g) DW	95.081131
Starch (%)	62.3639603
Fructose (%)	2.2896032
Glucose (%)	3.6213264
Sucrose (%)	11.6304703
Maltose (%)	0.4395046

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Kaphulira
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many dark purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Large (16-25 cm)
Petiole length estimating 1-9	Long (31-40 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Cream
Distribution of Secondary Flesh color estimating 0-9	Scattered spots in flesh
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	27
Protein (%)	3.3510475
b-carotene (mg/100g) DW (Lima)	34.8347778
Fe (mg/100g) DW	1.4616771
Zn (mg/100g) DW	0.8799119
Ca (mg/100g) DW	13.6940918
Mg (mg/100g) DW	62.0943451
Starch (%)	64.5170898
Fructose (%)	3.1947365
Glucose (%)	4.4437118
Sucrose (%)	10.1868439
Maltose (%)	0.5207319

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Kemb36
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	32.4
Protein (%)	2.3137245
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2601881
Zn (mg/100g) DW	0.9141188
Ca (mg/100g) DW	18.21875
Mg (mg/100g) DW	53.4438019
Starch (%)	69.4645691
Fructose (%)	0.9716234
Glucose (%)	1.4000472
Sucrose (%)	9.4744244
Maltose (%)	0.5187092

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Kenspot5
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Mostly purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thick (10-12 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Small (<8 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Totally or mostly purple
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Elliptic
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	26.8
Protein (%)	3.032217
b-carotene (mg/100g) DW (Lima)	21.2884521
Fe (mg/100g) DW	1.3153553
Zn (mg/100g) DW	0.8579507
Ca (mg/100g) DW	47.0219727
Mg (mg/100g) DW	54.649826
Starch (%)	62.9794693
Fructose (%)	3.4803047
Glucose (%)	4.5407457
Sucrose (%)	9.3720875
Maltose (%)	0.615098

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Kiegea
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many dark purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	26.2
Protein (%)	2.8149414
b-carotene (mg/100g) DW (Lima)	28.2382507
Fe (mg/100g) DW	1.5398374
Zn (mg/100g) DW	0.9989495
Ca (mg/100g) DW	75.435791
Mg (mg/100g) DW	83.0233154
Starch (%)	63.5389442
Fructose (%)	4.0158281
Glucose (%)	5.9699011
Sucrose (%)	8.5650425
Maltose (%)	0.4008999

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	King-J
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Purple base
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Very thin (<4 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Obovate
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	24.8
Protein (%)	3.3902416
b-carotene (mg/100g) DW (Lima)	30.4867401
Fe (mg/100g) DW	1.4735432
Zn (mg/100g) DW	0.7543106
Ca (mg/100g) DW	33.4949951
Mg (mg/100g) DW	57.6488342
Starch (%)	63.3830757
Fructose (%)	5.7135801
Glucose (%)	7.9909902
Sucrose (%)	5.678031
Maltose (%)	0.6930237

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Kokota
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	25
Protein (%)	2.4256401
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.4167433
Zn (mg/100g) DW	0.7713804
Ca (mg/100g) DW	61.9835205
Mg (mg/100g) DW	68.8002777
Starch (%)	69.9949493
Fructose (%)	3.3494225
Glucose (%)	4.2993765
Sucrose (%)	4.8261576
Maltose (%)	0.2315016

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Kulfo
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Totally dark purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Almost divided
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Linear (narrow)
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	#NULL!
Mature Leaf Color estimating 1-9	#NULL!
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Totally or mostly purple
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Brownish orange
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	20.6
Protein (%)	1.8335705
b-carotene (mg/100g) DW (Lima)	21.0577087
Fe (mg/100g) DW	1.1704617
Zn (mg/100g) DW	0.7385979
Ca (mg/100g) DW	6.5666504
Mg (mg/100g) DW	62.8428192
Starch (%)	57.167942
Fructose (%)	6.0443354
Glucose (%)	7.8195539
Sucrose (%)	12.0648289
Maltose (%)	0.6938591

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Lawrence
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Purple both surfaces
Mature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Orange
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	27.2
Protein (%)	3.1440372
b-carotene (mg/100g) DW (Lima)	3.8275757
Fe (mg/100g) DW	1.6135287
Zn (mg/100g) DW	1.0468483
Ca (mg/100g) DW	48.3210449
Mg (mg/100g) DW	60.23703
Starch (%)	67.0784836
Fructose (%)	1.5547876
Glucose (%)	2.2321382
Sucrose (%)	9.0378351
Maltose (%)	0.8202047

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Ligri
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many dark purple spots
Secondary Vine Color estimating 0-7	Green tip
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Oblong
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Cream
Distribution of Secondary Flesh color estimating 0-9	Scattered spots in flesh
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	27.6
Protein (%)	2.2090015
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.1397705
Zn (mg/100g) DW	0.8176155
Ca (mg/100g) DW	56.2280273
Mg (mg/100g) DW	66.9017639
Starch (%)	68.8177338
Fructose (%)	2.8984098
Glucose (%)	4.0671387
Sucrose (%)	8.1424217
Maltose (%)	0.4846478

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Lourdes
Plant Type estima	Erect (<75 cm)
Ground Cover esti	Total (> 90%)
Predominant Vine	Green
Secondary Vine Co	Absent
Vine Tips Pubesce	Sparse
Vine internode dia	Thin (4-6 mm)
Vine internode len	Short (3-5 cm)
General Outline of	Lobed
Leaf Lobes Type es	Moderate
Leaf Lobe Number	5 Lobe
Shape of Central L	Oblanceolate
Abaxial Leaf Vein I	Green
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green with purple veins on upper surface
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Intermediate (21-30 cm)
Petiole Pigmentat	Green
Flower color estim	#NULL!
Storage Root Shap	Long irregular or curved
Predominant Skin	Pink
Intensity of Predo	Pale
Secondary Skin co	Cream
Predominant Flesh	Pale orange
Secondary Flesh co	Absent
Distribution of Sec	Absent
Storage Root Corte	Very thin (1 mm)
Dry Matter %	22.6
Protein (%)	1.9920502
b-carotene (mg/1	12.8636627
Fe (mg/100g) DW	1.3496022
Zn (mg/100g) DW	1.0241179
Ca (mg/100g) DW	87.2452393
Mg (mg/100g) DV	84.7154999
Starch (%)	56.617939
Fructose (%)	7.7226877
Glucose (%)	10.7453489
Sucrose (%)	6.8298712
Maltose (%)	0.274086

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Margarete
Plant Type estima	Erect (<75 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Totally dark purple
Secondary Vine Co	Absent
Vine Tips Pubesce	Moderate
Vine internode dia	Thick (10-12 mm)
Vine internode ler	4
General Outline of	Lobed
Leaf Lobes Type es	Deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Lanceolate
Abaxial Leaf Vein I	All veins partial purple
Immature Leaf Col	Mostly purple
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Totally or mostly purple
Flower color estim	Pale purple limb with purple throat
Storage Root Shap	Elliptic
Predominant Skin	Dark purple
Intensity of Predo	Dark
Secondary Skin co	#NULL!
Predominant Flesh	Strongly pigmented with anthocyanins
Secondary Flesh co	Orange
Distribution of Sec	Scattered spots in flesh
Storage Root Corte	Thin (1-2 mm)
Dry Matter %	23
Protein (%)	3.2648773
b-carotene (mg/1	Purple
Fe (mg/100g) DW	1.4368896
Zn (mg/100g) DW	1.121202
Ca (mg/100g) DW	48.0958252
Mg (mg/100g) DV	65.9219513
Starch (%)	63.8816261
Fructose (%)	2.8649254
Glucose (%)	4.5221014
Sucrose (%)	11.730793
Maltose (%)	0.637825

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applic	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Mathuthu
Plant Type estima	Erect (<75 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Green with many dark purple spots
Secondary Vine Co	Purple nodes
Vine Tips Pubesce	Sparse
Vine internode dia	Intermediate (7-9 mm)
Vine internode ler	Short (3-5 cm)
General Outline of	Lobed
Leaf Lobes Type es	Deep
Leaf Lobe Number	#NULL!
Shape of Central L	Lanceolate
Abaxial Leaf Vein I	All veins mostly or totally purple
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Intermediate (21-30 cm)
Petiole Pigmentat	Green with purple both ends
Flower color estim	#NULL!
Storage Root Shap	#NULL!
Predominant Skin	#NULL!
Intensity of Predo	#NULL!
Secondary Skin co	#NULL!
Predominant Flesh	#NULL!
Secondary Flesh co	#NULL!
Distribution of Sec	#NULL!
Storage Root Corte	#NULL!
Dry Matter %	21.8
Protein (%)	3.5562572
b-carotene (mg/1	27.722641
Fe (mg/100g) DW	1.7017393
Zn (mg/100g) DW	1.0622506
Ca (mg/100g) DW	67.595459
Mg (mg/100g) DV	71.4527588
Starch (%)	65.1136017
Fructose (%)	3.2421112
Glucose (%)	4.7689595
Sucrose (%)	8.7359638
Maltose (%)	0.5882235

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Melinda
Plant Type estima	Spreading (151-250 cm)
Ground Cover esti	8
Predominant Vine	Mostly purple
Secondary Vine Co	Absent
Vine Tips Pubesce	Sparse
Vine internode dia	Thin (4-6 mm)
Vine internode ler	Long (10-12 cm)
General Outline of	Lobed
Leaf Lobes Type es	Moderate
Leaf Lobe Number	5 Lobe
Shape of Central L	Elliptic
Abaxial Leaf Vein I	Main rib partially purple
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green
Mature Leaf Size e	Small (<8 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Totally or mostly purple
Flower color estim	#NULL!
Storage Root Shap	Round elliptic
Predominant Skin	Cream
Intensity of Predo	Dark
Secondary Skin co	#NULL!
Predominant Flesh	Pale orange
Secondary Flesh co	Absent
Distribution of Sec	Absent
Storage Root Corte	Intermediate (2-3 mm)
Dry Matter %	20
Protein (%)	1.9106846
b-carotene (mg/1	8.9185333
Fe (mg/100g) DW	1.3995013
Zn (mg/100g) DW	0.726275
Ca (mg/100g) DW	41.0491943
Mg (mg/100g) DV	58.9759064
Starch (%)	57.5836601
Fructose (%)	8.6636457
Glucose (%)	10.9039001
Sucrose (%)	5.5679779
Maltose (%)	0.3302135

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	MothersDelight
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Mostly purple
Secondary Vine Color estimating 0-7	Green tip
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	No lateral lobes (entire)
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Totally or mostly purple
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Brownish orange
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Dark orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	17.8
Protein (%)	2.2425442
b-carotene (mg/100g) DW (Lima)	48.4568329
Fe (mg/100g) DW	1.6055808
Zn (mg/100g) DW	0.9545536
Ca (mg/100g) DW	82.4053955
Mg (mg/100g) DW	77.7910004
Starch (%)	49.780014
Fructose (%)	10.1610918
Glucose (%)	13.8150787
Sucrose (%)	6.7975836
Maltose (%)	0.4301682

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Mugamba
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Slightly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Oblong
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	22.8
Protein (%)	2.2096882
b-carotene (mg/100g) DW (Lima)	15.266983
Fe (mg/100g) DW	1.3369813
Zn (mg/100g) DW	0.8829112
Ca (mg/100g) DW	59.8861084
Mg (mg/100g) DW	88.8422546
Starch (%)	62.9954033
Fructose (%)	6.3791857
Glucose (%)	8.7271681
Sucrose (%)	6.2680016
Maltose (%)	0.210722

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Mugande
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Purple base
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	27.4
Protein (%)	3.024744
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.4671011
Zn (mg/100g) DW	1.039906
Ca (mg/100g) DW	39.3642578
Mg (mg/100g) DW	52.876358
Starch (%)	70.740921
Fructose (%)	0.8575439
Glucose (%)	1.4385012
Sucrose (%)	8.4763346
Maltose (%)	0.7151775

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Nakalbo
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Round elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	19.4
Protein (%)	1.51124
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2615795
Zn (mg/100g) DW	0.8067322
Ca (mg/100g) DW	32.1296387
Mg (mg/100g) DW	103.0947571
Starch (%)	47.899128
Fructose (%)	11.6300058
Glucose (%)	16.5498047
Sucrose (%)	7.753973
Maltose (%)	0.1160936

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Namanga
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Cream
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	26.4
Protein (%)	2.7618351
b-carotene (mg/100g) DW (Lima)	22.4264832
Fe (mg/100g) DW	1.3893819
Zn (mg/100g) DW	0.9106736
Ca (mg/100g) DW	64.6514893
Mg (mg/100g) DW	68.1379089
Starch (%)	65.5268402
Fructose (%)	4.4061232
Glucose (%)	6.2390599
Sucrose (%)	7.8926659
Maltose (%)	0.4068251

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Namnyekera
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Purple both surfaces
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Yellow
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	29
Protein (%)	2.6515007
b-carotene (mg/100g) DW (Lima)	5.7052307
Fe (mg/100g) DW	1.4588189
Zn (mg/100g) DW	0.8118234
Ca (mg/100g) DW	61.7110596
Mg (mg/100g) DW	63.8084412
Starch (%)	67.2859039
Fructose (%)	3.4557152
Glucose (%)	4.6346064
Sucrose (%)	8.3699236
Maltose (%)	0.7422533

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Nanungungungu
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thick (10-12 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	#NULL!
Immature Leaf Color estimating 1-9	#NULL!
Mature Leaf Color estimating 1-9	#NULL!
Mature Leaf Size estimating 3-9	#NULL!
Petiole length estimating 1-9	#NULL!
Petiole Pigmentation estimating 1-9	#NULL!
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	#NULL!
Predominant Skin color estimating 1-9	#NULL!
Intensity of Predominant Skin color estimating 1-3	#NULL!
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	#NULL!
Secondary Flesh color estimating 0-9	#NULL!
Distribution of Secondary Flesh color estimating 0-9	#NULL!
Storage Root Cortex Thickness estimating 1-9	#NULL!
Dry Matter %	25.8
Protein (%)	2.28969
b-carotene (mg/100g) DW (Lima)	38.3658142
Fe (mg/100g) DW	1.2495942
Zn (mg/100g) DW	0.8694992
Ca (mg/100g) DW	35.223877
Mg (mg/100g) DW	67.8848114
Starch (%)	64.7013397
Fructose (%)	2.3668499
Glucose (%)	3.3828278
Sucrose (%)	10.9149456
Maltose (%)	0.6298456

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	NASPOT1
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	8
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	31.6
Protein (%)	2.7221889
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2525158
Zn (mg/100g) DW	0.837081
Ca (mg/100g) DW	87.4460449
Mg (mg/100g) DW	66.2116699
Starch (%)	75.3607941
Fructose (%)	1.6410713
Glucose (%)	2.2317376
Sucrose (%)	4.849206
Maltose (%)	0.5869608

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desigr	Randomized Complete Block Design
Experimental_desigr	RCBD
Number_of_replicat	4
Block_size_(applicat	NA
Experimental_Enviro	Field
Number_of_plants_	10

Common Name	NASPOT10O
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Almost divided
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	7 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	24
Protein (%)	1.9572144
b-carotene (mg/100g) DW (Lima)	38.3022995
Fe (mg/100g) DW	1.4714675
Zn (mg/100g) DW	1.073391
Ca (mg/100g) DW	74.6791992
Mg (mg/100g) DW	68.2213593
Starch (%)	63.6190605
Fructose (%)	2.5794287
Glucose (%)	3.5523243
Sucrose (%)	9.416255
Maltose (%)	0.6089382

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desigr	Randomized Complete Block Design
Experimental_desigr	RCBD
Number_of_replicat	4
Block_size_(applicat	NA
Experimental_Enviro	Field
Number_of_plants_	10

Common Name	NASPOT11
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	0
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	28.6
Protein (%)	3.131422
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.6712871
Zn (mg/100g) DW	0.9697075
Ca (mg/100g) DW	115.1943359
Mg (mg/100g) DW	66.2256622
Starch (%)	72.1386108
Fructose (%)	2.285368
Glucose (%)	3.3573318
Sucrose (%)	6.8309193
Maltose (%)	0.570116

Common Name	NASPOT12O
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Hastate
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	28
Protein (%)	3.0366478
b-carotene (mg/100g) DW (Lima)	29.3881989
Fe (mg/100g) DW	1.4489708
Zn (mg/100g) DW	0.9669051
Ca (mg/100g) DW	72.4136963
Mg (mg/100g) DW	55.9827271
Starch (%)	72.6197968
Fructose (%)	1.6149902
Glucose (%)	2.2222915
Sucrose (%)	4.9504499
Maltose (%)	0.6211967

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	NASPOT13O
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Mostly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	27.2
Protein (%)	2.786953
b-carotene (mg/100g) DW (Lima)	48.7529449
Fe (mg/100g) DW	1.5254893
Zn (mg/100g) DW	1.1659808
Ca (mg/100g) DW	45.0935059
Mg (mg/100g) DW	65.8393555
Starch (%)	63.7922249
Fructose (%)	1.5005836
Glucose (%)	2.4841681
Sucrose (%)	12.7421656
Maltose (%)	0.686204

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	NASPOT8
Plant Type estima	Extremely spreading (> 250 cm)
Ground Cover esti	Total (> 90%)
Predominant Vine	Green with few purple spots
Secondary Vine Co	Purple tip
Vine Tips Pubesce	Absent
Vine internode dia	Intermediate (7-9 mm)
Vine internode ler	Intermediate (6-9 cm)
General Outline of	Almost divided
Leaf Lobes Type es	Very deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Elliptic
Abaxial Leaf Vein I	Green
Immature Leaf Col	Slightly purple
Mature Leaf Color	Green with purple edge
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Green with purple spots throughout petiole
Flower color estim	#NULL!
Storage Root Shap	Long irregular or curved
Predominant Skin	Dark purple
Intensity of Predo	Pale
Secondary Skin co	#NULL!
Predominant Flesh	Pale orange
Secondary Flesh co	Yellow
Distribution of Sec	Scattered spots in flesh
Storage Root Corte	Very thin (1 mm)
Dry Matter %	26.2
Protein (%)	2.177021
b-carotene (mg/1	15.1139984
Fe (mg/100g) DW	1.2352858
Zn (mg/100g) DW	0.9112182
Ca (mg/100g) DW	96.7045898
Mg (mg/100g) DV	77.6708679
Starch (%)	66.1903839
Fructose (%)	3.2929182
Glucose (%)	4.8850913
Sucrose (%)	8.2940693
Maltose (%)	0.6118183

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replic	4
Block_size_(applic	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	NASPOT9O
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	Total (> 90%)
Predominant Vine	Green
Secondary Vine Co	Absent
Vine Tips Pubesce	Heavy
Vine internode dia	Thick (10-12 mm)
Vine internode ler	Short (3-5 cm)
General Outline of	Lobed
Leaf Lobes Type es	Deep
Leaf Lobe Number	7 Lobe
Shape of Central L	Elliptic
Abaxial Leaf Vein I	Purple spot in the base of main rib
Immature Leaf Col	Slightly purple
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Purple with green near leaf
Flower color estim	#NULL!
Storage Root Shap	Long irregular or curved
Predominant Skin	Purple-red
Intensity of Predo	Intermediate
Secondary Skin co	#NULL!
Predominant Flesh	Intermediate orange
Secondary Flesh co	Yellow
Distribution of Sec	In longitudinal sections
Storage Root Corte	Intermediate (2-3 mm)
Dry Matter %	25
Protein (%)	3.0562534
b-carotene (mg/1	21.295166
Fe (mg/100g) DW	1.4801402
Zn (mg/100g) DW	1.0304151
Ca (mg/100g) DW	82.4078369
Mg (mg/100g) DV	55.2592621
Starch (%)	70.2449341
Fructose (%)	2.3037052
Glucose (%)	2.9505982
Sucrose (%)	5.0073404
Maltose (%)	0.5201035

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Naveto
Plant Type estimating 3-9	Extremely spreading (> 250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Heavy
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Long (10-12 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	27.4
Protein (%)	2.5622997
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2196712
Zn (mg/100g) DW	0.7232456
Ca (mg/100g) DW	76.5875244
Mg (mg/100g) DW	66.3674927
Starch (%)	64.5703735
Fructose (%)	6.6411161
Glucose (%)	9.2365303
Sucrose (%)	4.0453949
Maltose (%)	0.5337391

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	NewKawogo
Plant Type estima	Erect (<75 cm)
Ground Cover esti	Low (<50%)
Predominant Vine	Green with few purple spots
Secondary Vine Co	Green base
Vine Tips Pubesce	Sparse
Vine internode dia	Intermediate (7-9 mm)
Vine internode ler	Very short (<3 cm)
General Outline of	Lobed
Leaf Lobes Type es	Deep
Leaf Lobe Number	7 Lobe
Shape of Central L	Semi-elliptic
Abaxial Leaf Vein I	Purple spot in the base of main rib
Immature Leaf Col	Purple both surfaces
Mature Leaf Color	Green with purple edge
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Green with purple near leaf
Flower color estim	#NULL!
Storage Root Shap	#NULL!
Predominant Skin	#NULL!
Intensity of Predo	#NULL!
Secondary Skin co	#NULL!
Predominant Flesh	#NULL!
Secondary Flesh co	#NULL!
Distribution of Sec	#NULL!
Storage Root Corte	#NULL!
Dry Matter %	27.4
Protein (%)	2.8908291
b-carotene (mg/1	0
Fe (mg/100g) DW	1.3733382
Zn (mg/100g) DW	1.0199008
Ca (mg/100g) DW	54.0927734
Mg (mg/100g) DV	61.5521698
Starch (%)	69.9610062
Fructose (%)	1.7563448
Glucose (%)	2.2533793
Sucrose (%)	7.3386374
Maltose (%)	0.7310438

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Nyamoyo
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Purple
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	31.6
Protein (%)	2.583374
b-carotene (mg/100g) DW (Lima)	Purple
Fe (mg/100g) DW	1.0614572
Zn (mg/100g) DW	0.705008
Ca (mg/100g) DW	41.2557373
Mg (mg/100g) DW	38.8204346
Starch (%)	72.531868
Fructose (%)	2.1667223
Glucose (%)	2.8484559
Sucrose (%)	7.7471266
Maltose (%)	0.6162128

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Okumkom
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	24.8
Protein (%)	2.286417
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.4479508
Zn (mg/100g) DW	0.9515715
Ca (mg/100g) DW	61.5720215
Mg (mg/100g) DW	76.0667877
Starch (%)	60.1148453
Fructose (%)	4.6572771
Glucose (%)	6.2002692
Sucrose (%)	8.9555082
Maltose (%)	0.3307352

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Olympia
Plant Type estimating 3-9	Extremely spreading (> 250 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Long (10-12 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	29.4
Protein (%)	2.7618542
b-carotene (mg/100g) DW (Lima)	1.0652618
Fe (mg/100g) DW	1.351995
Zn (mg/100g) DW	0.9003329
Ca (mg/100g) DW	67.5782471
Mg (mg/100g) DW	58.9779663
Starch (%)	68.7319641
Fructose (%)	1.4700804
Glucose (%)	2.3677688
Sucrose (%)	10.0339823
Maltose (%)	0.7231398

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Patron
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Chordate (heart-shaped)
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins partial purple
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	31.4
Protein (%)	2.8641472
b-carotene (mg/100g) DW (Lima)	1.9832306
Fe (mg/100g) DW	1.3140445
Zn (mg/100g) DW	0.8119326
Ca (mg/100g) DW	10.7960205
Mg (mg/100g) DW	55.2539368
Starch (%)	68.6643295
Fructose (%)	1.3362818
Glucose (%)	1.8558716
Sucrose (%)	11.3058548
Maltose (%)	0.6734419

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Pepiris
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	28.2
Protein (%)	3.1809311
b-carotene (mg/100g) DW (Lima)	36.2924042
Fe (mg/100g) DW	1.4209123
Zn (mg/100g) DW	0.925097
Ca (mg/100g) DW	25.6671143
Mg (mg/100g) DW	51.4593201
Starch (%)	66.5459137
Fructose (%)	1.6895247
Glucose (%)	2.6744924
Sucrose (%)	10.7951841
Maltose (%)	0.6231699

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Polista
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many dark purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Purple both surfaces
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	#NULL!
Predominant Skin color estimating 1-9	#NULL!
Intensity of Predominant Skin color estimating 1-3	#NULL!
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	#NULL!
Secondary Flesh color estimating 0-9	#NULL!
Distribution of Secondary Flesh color estimating 0-9	#NULL!
Storage Root Cortex Thickness estimating 1-9	#NULL!
Dry Matter %	31.2
Protein (%)	2.9611816
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2681684
Zn (mg/100g) DW	0.9806404
Ca (mg/100g) DW	63.9482422
Mg (mg/100g) DW	57.6321259
Starch (%)	71.7837601
Fructose (%)	1.649991
Glucose (%)	2.750267
Sucrose (%)	7.9293957
Maltose (%)	0.7062149

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Safare
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	Low (<50%)
Predominant Vine	Green with many purple spots
Secondary Vine Co	Purple nodes
Vine Tips Pubesce	Sparse
Vine internode dia	Intermediate (7-9 mm)
Vine internode len	Intermediate (6-9 cm)
General Outline of	Triangular
Leaf Lobes Type es	Slight
Leaf Lobe Number	3 Lobe
Shape of Central L	Triangular
Abaxial Leaf Vein I	Purple spot in the base of main rib
Immature Leaf Col	Green
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Green with purple spots throughout petiole
Flower color estim	#NULL!
Storage Root Shap	Long elliptic
Predominant Skin	Dark purple
Intensity of Predo	Dark
Secondary Skin co	#NULL!
Predominant Flesh	Pale yellow
Secondary Flesh co	Purple
Distribution of Sec	In longitudinal sections
Storage Root Corte	Thin (1-2 mm)
Dry Matter %	28.6
Protein (%)	2.343256
b-carotene (mg/1	Purple
Fe (mg/100g) DW	0.9744287
Zn (mg/100g) DW	0.7431345
Ca (mg/100g) DW	70.0435791
Mg (mg/100g) DV	37.815567
Starch (%)	69.3739319
Fructose (%)	2.4731703
Glucose (%)	3.2143941
Sucrose (%)	10.4956274
Maltose (%)	0.6586466

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applic	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	SantomPona
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	No lateral lobes (entire)
Leaf Lobe Number estimating 1-9	1 Lobe
Shape of Central Leaf Lobe estimating 0-9	Toothed
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	28.8
Protein (%)	3.4568138
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2212281
Zn (mg/100g) DW	0.9188929
Ca (mg/100g) DW	26.6491699
Mg (mg/100g) DW	67.3774567
Starch (%)	71.4146271
Fructose (%)	2.0416403
Glucose (%)	3.3445821
Sucrose (%)	7.4567642
Maltose (%)	0.4761734

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Slipot1
Plant Type estimating 3-9	Extremely spreading (> 250 cm)
Ground Cover estimating 3-9	8
Predominant Vine Color estimating 1-9	Mostly purple
Secondary Vine Color estimating 0-7	Green tip
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very long (>12 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-circular
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	25.8
Protein (%)	2.1309624
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.4482098
Zn (mg/100g) DW	0.8503819
Ca (mg/100g) DW	118.4279785
Mg (mg/100g) DW	70.7674713
Starch (%)	60.5774651
Fructose (%)	5.4236879
Glucose (%)	6.9583507
Sucrose (%)	7.973609
Maltose (%)	0.4390268

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Slipot2
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Totally dark purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Rounded
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Toothed
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Totally or mostly purple
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	25.4
Protein (%)	2.3607635
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.2299037
Zn (mg/100g) DW	0.7725177
Ca (mg/100g) DW	78.0831299
Mg (mg/100g) DW	69.8831482
Starch (%)	59.2730751
Fructose (%)	7.0110655
Glucose (%)	9.3594332
Sucrose (%)	8.5586777
Maltose (%)	0.6057453

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Slipot3
Plant Type estimating 3-9	Extremely spreading (> 250 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Mostly purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Cream
Distribution of Secondary Flesh color estimating 0-9	Scattered spots in flesh
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	26.6
Protein (%)	2.6142769
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.1613317
Zn (mg/100g) DW	0.9939375
Ca (mg/100g) DW	55.0222168
Mg (mg/100g) DW	62.9340973
Starch (%)	72.1345215
Fructose (%)	1.5482941
Glucose (%)	2.8275785
Sucrose (%)	7.9350786
Maltose (%)	0.6039648

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Slipot4
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	High (75-90%)
Predominant Vine	Green
Secondary Vine Co	Absent
Vine Tips Pubesce	Moderate
Vine internode dia	Thin (4-6 mm)
Vine internode ler	Intermediate (6-9 cm)
General Outline of	Lobed
Leaf Lobes Type es	Slight
Leaf Lobe Number	3 Lobe
Shape of Central L	Semi-elliptic
Abaxial Leaf Vein	Green
Immature Leaf Col	Green
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Green
Flower color estim	#NULL!
Storage Root Shap	Long elliptic
Predominant Skin	Cream
Intensity of Predo	Dark
Secondary Skin co	#NULL!
Predominant Flesh	White
Secondary Flesh c	Absent
Distribution of Sec	Absent
Storage Root Corte	Thin (1-2 mm)
Dry Matter %	27.6
Protein (%)	2.5400124
b-carotene (mg/1	0
Fe (mg/100g) DW	1.2619362
Zn (mg/100g) DW	0.7999692
Ca (mg/100g) DW	74.1207275
Mg (mg/100g) DV	67.430542
Starch (%)	68.8411407
Fructose (%)	3.0963449
Glucose (%)	4.6129522
Sucrose (%)	7.1924839
Maltose (%)	0.3497248

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	SPK031
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	8
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Almost divided
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Linear (narrow)
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Dark orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	24.4
Protein (%)	2.1139927
b-carotene (mg/100g) DW (Lima)	20.9391174
Fe (mg/100g) DW	1.3079977
Zn (mg/100g) DW	0.7011104
Ca (mg/100g) DW	40.921875
Mg (mg/100g) DW	47.3552094
Starch (%)	60.2554321
Fructose (%)	4.9738655
Glucose (%)	6.3550887
Sucrose (%)	7.8034582
Maltose (%)	0.7257204

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Sumaia
Plant Type estima	Semi-erect (75-150 cm)
Ground Cover esti	Total (> 90%)
Predominant Vine	Green
Secondary Vine Co	Absent
Vine Tips Pubesce	Absent
Vine internode dia	Intermediate (7-9 mm)
Vine internode ler	Short (3-5 cm)
General Outline of	Lobed
Leaf Lobes Type es	Very deep
Leaf Lobe Number	5 Lobe
Shape of Central L	Elliptic
Abaxial Leaf Vein I	Green
Immature Leaf Col	Green with purple edge
Mature Leaf Color	Green
Mature Leaf Size e	Medium (8-15 cm)
Petiole length esti	Short (10-20 cm)
Petiole Pigmentat	Green
Flower color estim	Pale purple limb with purple throat
Storage Root Shap	Long elliptic
Predominant Skin	Brownish orange
Intensity of Predo	Intermediate
Secondary Skin co	#NULL!
Predominant Flesh	Intermediate orange
Secondary Flesh co	Yellow
Distribution of Sec	In longitudinal sections
Storage Root Corte	Intermediate (2-3 mm)
Dry Matter %	19.8
Protein (%)	2.0811901
b-carotene (mg/1	20.9015503
Fe (mg/100g) DW	1.3662477
Zn (mg/100g) DW	0.9933829
Ca (mg/100g) DW	93.1713867
Mg (mg/100g) DV	104.9501343
Starch (%)	55.2725754
Fructose (%)	8.9774237
Glucose (%)	12.9491596
Sucrose (%)	6.5021935
Maltose (%)	0.4179802

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_cente	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funde	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_desi	Randomized Complete Block Design
Experimental_desi	RCBD
Number_of_replica	4
Block_size_(applica	NA
Experimental_Envi	Field
Number_of_plants	10

Common Name	Sungani
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Purple nodes
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	4
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	-9
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	29.2
Protein (%)	2.49963
b-carotene (mg/100g) DW (Lima)	7.1676636
Fe (mg/100g) DW	1.3255277
Zn (mg/100g) DW	0.8905954
Ca (mg/100g) DW	9.8666992
Mg (mg/100g) DW	63.5167084
Starch (%)	66.0319061
Fructose (%)	2.22048
Glucose (%)	3.7801733
Sucrose (%)	11.0449829
Maltose (%)	0.90483

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Tanzania
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	32
Protein (%)	3.7496433
b-carotene (mg/100g) DW (Lima)	2.0189514
Fe (mg/100g) DW	1.3133893
Zn (mg/100g) DW	1.0244427
Ca (mg/100g) DW	60.6431885
Mg (mg/100g) DW	54.6638947
Starch (%)	71.3663864
Fructose (%)	0.969429
Glucose (%)	1.8105782
Sucrose (%)	7.4181747
Maltose (%)	0.7403479

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Terimbere
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Intermediate (6-9 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Intermediate (21-30 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	21.6
Protein (%)	2.3374481
b-carotene (mg/100g) DW (Lima)	29.1471558
Fe (mg/100g) DW	1.4072542
Zn (mg/100g) DW	0.8752761
Ca (mg/100g) DW	41.6787109
Mg (mg/100g) DW	58.9013977
Starch (%)	60.9227028
Fructose (%)	5.6263266
Glucose (%)	7.6161952
Sucrose (%)	7.1256952
Maltose (%)	0.5090961

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	TIB
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with many purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thick (10-12 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	All veins mostly or totally purple
Immature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple both ends
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Elliptic
Predominant Skin color estimating 1-9	Brownish orange
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Cream
Distribution of Secondary Flesh color estimating 0-9	In longitudinal sections
Storage Root Cortex Thickness estimating 1-9	Thick (3-4 mm)
Dry Matter %	22
Protein (%)	1.9709949
b-carotene (mg/100g) DW (Lima)	18.7068024
Fe (mg/100g) DW	1.4228063
Zn (mg/100g) DW	0.740499
Ca (mg/100g) DW	89.4279785
Mg (mg/100g) DW	77.0173798
Starch (%)	58.0728416
Fructose (%)	5.1603069
Glucose (%)	6.6746106
Sucrose (%)	12.7961998
Maltose (%)	0.4628468

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	TioJoe
Plant Type estimating 3-9	Spreading (151-250 cm)
Ground Cover estimating 3-9	Total (> 90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Long (10-12 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	No lateral lobes (entire)
Leaf Lobe Number estimating 1-9	1 Lobe
Shape of Central Leaf Lobe estimating 0-9	Toothed
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Brownish orange
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Dark orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	23.4
Protein (%)	2.9394894
b-carotene (mg/100g) DW (Lima)	34.9588623
Fe (mg/100g) DW	1.5963216
Zn (mg/100g) DW	0.9768472
Ca (mg/100g) DW	69.1334229
Mg (mg/100g) DW	76.8466492
Starch (%)	58.1084976
Fructose (%)	4.2532253
Glucose (%)	5.7272334
Sucrose (%)	11.9757967
Maltose (%)	0.4399347

TRIAL METADATA

Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	TIS8164
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thick (10-12 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Elliptic
Predominant Skin color estimating 1-9	Purple-red
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	22.4
Protein (%)	2.6862411
b-carotene (mg/100g) DW (Lima)	0
Fe (mg/100g) DW	1.5628109
Zn (mg/100g) DW	0.779139
Ca (mg/100g) DW	36.7854004
Mg (mg/100g) DW	55.2643738
Starch (%)	66.2547989
Fructose (%)	4.4999571
Glucose (%)	5.923974
Sucrose (%)	6.794651
Maltose (%)	0.4689703

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	TIS87-0087
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green with few purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Hastate
Leaf Lobes Type estimating 0-9	Slight
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Purple spot in the base of main rib
Immature Leaf Color estimating 1-9	Slightly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green with purple near leaf
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	White
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	26
Protein (%)	3.0398846
b-carotene (mg/100g) DW (Lima)	6.2249908
Fe (mg/100g) DW	1.4261346
Zn (mg/100g) DW	1.038548
Ca (mg/100g) DW	140.2625732
Mg (mg/100g) DW	64.3490753
Starch (%)	63.4384842
Fructose (%)	3.4440641
Glucose (%)	5.2607422
Sucrose (%)	11.5783539
Maltose (%)	0.0810518

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Tulla
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Totally dark purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Very deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Linear (narrow)
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Slightly purple
Mature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Totally or mostly purple
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Ovate
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Thin (1-2 mm)
Dry Matter %	21.4
Protein (%)	1.698122
b-carotene (mg/100g) DW (Lima)	14.6056824
Fe (mg/100g) DW	1.2037807
Zn (mg/100g) DW	0.6654296
Ca (mg/100g) DW	18.1395264
Mg (mg/100g) DW	57.875885
Starch (%)	56.8971672
Fructose (%)	5.9813452
Glucose (%)	7.7150064
Sucrose (%)	12.450676
Maltose (%)	0.62644

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Tu-Purple
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Totally purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Intermediate (7-9 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	#NULL!
Leaf Lobes Type estimating 0-9	#NULL!
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	#NULL!
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green with purple edge
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Some petioles purple others green
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Oblong
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Dark
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Cream
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	31.2
Protein (%)	4.6206932
b-carotene (mg/100g) DW (Lima)	2.9923553
Fe (mg/100g) DW	1.5665202
Zn (mg/100g) DW	1.0165086
Ca (mg/100g) DW	16.9173584
Mg (mg/100g) DW	37.8047333
Starch (%)	74.2223969
Fructose (%)	1.3679037
Glucose (%)	1.2248729
Sucrose (%)	4.2752943
Maltose (%)	0.9632187

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Twatasha
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Low (<50%)
Predominant Vine Color estimating 1-9	Green with many dark purple spots
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Triangular
Leaf Lobes Type estimating 0-9	Very slight (teeth)
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Triangular
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib mostly or totally purple
Immature Leaf Color estimating 1-9	Purple both surfaces
Mature Leaf Color estimating 1-9	Green with purple veins on upper surface
Mature Leaf Size estimating 3-9	8
Petiole length estimating 1-9	Very short (<10 cm)
Petiole Pigmentation estimating 1-9	Green with purple spots throughout petiole
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	#NULL!
Predominant Skin color estimating 1-9	#NULL!
Intensity of Predominant Skin color estimating 1-3	#NULL!
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	#NULL!
Secondary Flesh color estimating 0-9	#NULL!
Distribution of Secondary Flesh color estimating 0-9	#NULL!
Storage Root Cortex Thickness estimating 1-9	#NULL!
Dry Matter %	28.4
Protein (%)	2.7959881
b-carotene (mg/100g) DW (Lima)	24.1562958
Fe (mg/100g) DW	1.4776411
Zn (mg/100g) DW	0.8936191
Ca (mg/100g) DW	80.7093506
Mg (mg/100g) DW	86.4750977
Starch (%)	63.8397713
Fructose (%)	3.5837421
Glucose (%)	5.1676373
Sucrose (%)	9.8492937
Maltose (%)	0.664999

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Ukerewe
Plant Type estimating 3-9	Erect (<75 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Moderate
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Deep
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Purple both surfaces
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long irregular or curved
Predominant Skin color estimating 1-9	Dark purple
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Pale yellow
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	32.8
Protein (%)	2.6536293
b-carotene (mg/100g) DW (Lima)	7.8251495
Fe (mg/100g) DW	1.1046553
Zn (mg/100g) DW	0.8708849
Ca (mg/100g) DW	67.7355957
Mg (mg/100g) DW	72.4611664
Starch (%)	72.9432983
Fructose (%)	2.1922932
Glucose (%)	3.7056122
Sucrose (%)	5.3411064
Maltose (%)	0.4682989

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
Begin_date	43221
End_date	43374
Format	xlsx
Software_name	SWEETPOTATOBASE.ORG; HIDAP; FieldBook App;
Version	NA
CIP_Region	sub-Sahara Africa (SSA)
Continent	Africa
Country	Kenya
Admin1	Makueni County
Admin2	Makindu
Admin3	KARLO Kiboko sub-Center
Locality	Kiboko
Site_short_name	Kiboko
Elevation	1000 Meters
Latitude	2° 10' and 2° South
Longitude	37° 40' and 37° 55' East
Experimental_design	Randomized Complete Block Design
Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Victoria
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	Medium (<50-74%)
Predominant Vine Color estimating 1-9	Totally dark purple
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Absent
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Very short (<3 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	5 Lobe
Shape of Central Leaf Lobe estimating 0-9	Lanceolate
Abaxial Leaf Vein Pigmentation estimating 1-9	Main rib partially purple
Immature Leaf Color estimating 1-9	Slightly purple
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Totally or mostly purple
Flower color estimating 1-6	Pale purple limb with purple throat
Storage Root Shape estimating 1-9	Long elliptic
Predominant Skin color estimating 1-9	Pink
Intensity of Predominant Skin color estimating 1-3	Pale
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	25.6
Protein (%)	2.8696651
b-carotene (mg/100g) DW (Lima)	54.4068604
Fe (mg/100g) DW	1.7747421
Zn (mg/100g) DW	1.2035732
Ca (mg/100g) DW	94.8997803
Mg (mg/100g) DW	81.4920349
Starch (%)	62.4459381
Fructose (%)	0.7281265
Glucose (%)	1.6816932
Sucrose (%)	15.7635679
Maltose (%)	0.7950172

TRIAL METADATA	
Title	Morpholigical Characterisation Trial for the 100 Best Bet Sweetpotato Germplam in sub-Sahara Africa
Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
Project_name	Sweetpotato for Action and Health in Africa (SASHA)
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Experimental_design_abbreviation	RCBD
Number_of_replications_or_blocks	4
Block_size_(applicable_for_BIBD_only)	NA
Experimental_Environment	Field
Number_of_plants_planted_per_plot	10

Common Name	Zondeni
Plant Type estimating 3-9	Semi-erect (75-150 cm)
Ground Cover estimating 3-9	High (75-90%)
Predominant Vine Color estimating 1-9	Green
Secondary Vine Color estimating 0-7	Absent
Vine Tips Pubescence estimating 0-7	Sparse
Vine internode diameter estimating 1-9	Thin (4-6 mm)
Vine internode length estimating 1-9	Short (3-5 cm)
General Outline of the Leaf estimating 1-7	Lobed
Leaf Lobes Type estimating 0-9	Moderate
Leaf Lobe Number estimating 1-9	3 Lobe
Shape of Central Leaf Lobe estimating 0-9	Semi-elliptic
Abaxial Leaf Vein Pigmentation estimating 1-9	Green
Immature Leaf Color estimating 1-9	Green
Mature Leaf Color estimating 1-9	Green
Mature Leaf Size estimating 3-9	Medium (8-15 cm)
Petiole length estimating 1-9	Short (10-20 cm)
Petiole Pigmentation estimating 1-9	Green
Flower color estimating 1-6	#NULL!
Storage Root Shape estimating 1-9	Long oblong
Predominant Skin color estimating 1-9	Cream
Intensity of Predominant Skin color estimating 1-3	Intermediate
Secondary Skin color estimating 1-10	#NULL!
Predominant Flesh color estimating 1-9	Intermediate orange
Secondary Flesh color estimating 0-9	Absent
Distribution of Secondary Flesh color estimating 0-9	Absent
Storage Root Cortex Thickness estimating 1-9	Intermediate (2-3 mm)
Dry Matter %	32.4
Protein (%)	3.0509682
b-carotene (mg/100g) DW (Lima)	15.8513031
Fe (mg/100g) DW	1.4063272
Zn (mg/100g) DW	0.7908287
Ca (mg/100g) DW	87.7685547
Mg (mg/100g) DW	66.6647339
Starch (%)	70.3603516
Fructose (%)	1.5246067
Glucose (%)	2.054512
Sucrose (%)	8.2483654
Maltose (%)	0.2521486

TRIAL METADATA	
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Leader	Dr. Jan Low and Dr. Benjamin Musembi Kivuva
Collaborators	Edward Carey; Robert Mwanga; Jolien Swankert; Bramwel Wanjala; Luka Wanjohi; Faith Njunge;
Affiliation	Kenya Agricultural & Livestock Research Organization (KALRO) and the International Potato Center (CIP)
Contact_name	Jolien Swankert
Contact_affiliation	International Potato Center
Contact_e-mail	J.Swanckaert@cgiar.org
Crop	Sweetpotato
Language	English
Contributor_center	International Potato Center
Contributor_CRP	CGIAR Roots, Tubers & Bananas
Contributor_funder	Bill and Melinda Gates Foundation (BMGF)
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