



Seed Savers Network Kenya

		Pisum sativum (under OSSS T&C)																					
		Name of the cultivar		Thanatu	Thanatu	Thanatu	Thanatu	Thanatu	Long grano	Long grano	Long grano	long grano	long grano	short grano	short grano	short Grano	shart Grano	short Grano	Gikuyu	Gikuyu	Gikuyu	Gikuyu	
		Village		Kiahiti B	Kiahiti B	Makongo	Makongo	SSN	Kiahiti B	Kiahiti B	SSN	Makongo	Makongo	Kiahiti B	Kiahiti B	MAKONGO	Makongo	SSN	Kiahiti B	Kiahiti B	Makongo	SSN	
		Year		2022	2023	2023	2024		2022	2023	2024	2024	2023	2022	2023	2023	2024		2022	2023	2024	2024	
CPVO No		Characteristic	Notes	V																			
1	VG	Plant: anthocyanin coloration																					
		absent	1		V	V	V	V		V	V	V	V		V								
		present	9	V					V					V		V	V	V	V	V	V	V	
2	VG	Stem: anthocyanin coloration of axil																					
		absent	1		V	V	V	V		V	V	V	V		V				V		V	V	
		single ring	2													V	V	V					
		double ring	3	V					V					V						V			
4	MS	Stem: length																					
		very short	1																				
		short	3	V		V	V	V															
		medium	5		V									V			V	V					
		long	7						V				V		V							V	
		very long	9						V	V	V	V			V				V	V	V		
6	VG	Foliage: colour																					
		yellow green	1						V	V	V	V	V	V	V	V	V	V	V	V		V	
		green	2	V	V	V	V	V						V							V		
		blue green	3																				
8	VG	Leaf: leaflets																					
		absent	1																				
		present	9	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
9	MS/MG	Leaf: maximum number of leaflets																					
		few	3																				
		medium	5	V								V					V						
		many	7		V	V	V	V	V	V	V		V	V	V	V		V	V	V	V	V	
13	MS/VG	Leaflet: position of broadest part																					
		at middle or slightly towards base	1	V								V		V					V		V		
		moderately towards base	2		V	V	V	V	V	V	V		V			V	V	V		V		V	
		strongly towards base	3												V								
14	VG	Leaflet: dentation																					
		absent or very weak	1																				
		weak	3												V								
		medium	5						V	V	V	V									V		
		strong	7		V		V	V							V	V	V	V	V	V		V	
		very strong	9	V		V									V								

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		Medium	5																	
		high	7																	
		Very high	9																	
56	VG	Resistance to Fusarium oxysporum f. sp. pisi , Race 1																		
		absent	1		v	v	v		v	v	v	v		v	v	v	v	v	v	v
		present	9					v												
57	VG	Resistance to Erysiphe pisi Syd.																		
		absent	1		v				v	v				v	v	v	v	v	v	v
		present	9			v	v	v			v	v								
58	VG	Resistance to Ascochyta pisi Race C																		
		absent	1						v	v	v			v	v			v		
		present	9		v	v	v	v				v		v		v			v	v



Seed Savers Network Kenya

		Phaseolus vulgaris, Bean (under OSSS T&C)						
		Number of crop		1				2
		Village		Ndabibi	Thome	SSN	Thome	Ndabibi
		Name of cultivar		wairimu BIG	Wairimu	Wairimu	wairimu	Mukura Noke
		Year		2022	2023	2024	2024	2022
CPVO No		Characteristic	Note	√				
2	VG	Plant: growth type						
		dwarf	1		√			√
		climbing	2	√		√	√	
4	VG	Dwarf beans only: Plant dwarf type						
		non-vining	1					
		vining	2		√			√
5	MG	Dwarf beans only: Plant: height						
	MS	low	3					
	VG	medium	5		√			√
		high	7					
8	VG	Leaf intensity of green colour						
		very light	1					
		light	3	√				
		medium	5		√		√	√
		dark	7			√		
		very dark	9					
9	VG	Leaf: rugosity						
		absent or weak	1					
		weak	3	√		√	√	
		medium	5					
		strong	7		√			√
		very strong	9					
11	VG	Terminal leaflet: shape						
		triangular	1					
		triangular to circular	2	√	√	√	√	√

		circular to quadrangular	3					
		quadrangular	4					
			5					
15	VG	Flower: colour of wing						
		white	1	√	√	√	√	
		pinkish white	2					√
		pink	3					
		violet	4					
17.1	MS	Dwarf beans only: Pod: length (excluding beak)						
		very short	1					
		short	3					√
		medium	5					
		long	7	√				
		very long	9		√			
17.2	MS	Climbing beans only. Pods: length (excluding beak)						
		very short	1					
		short	3					
		medium	5		√	√	√	
		long	7	√				
		very long	9					
22	VG	Pod: ground colour						
		yellow	1					
		green	2	√	√	√	√	√
		violet	3					
29	VG	Pod: shape of curvature						
		concave	1	√	√	√	√	
		s-shaped	2					
		convex	3					√
		Straight	4					
35	MS	Seed: weight in grams (1000 seeds)						
	MG	very low	1					
		low	3					
		medium	5	√				
		high	7					√
		very high	9					
36	VG	Seed: shape of median longitudinal section						
		circular	1					
		circular to elliptic	2					
		elliptic	3					
		kidney shaped	4	√		√	√	√

		rectangular	5		√			
40	MS	Seed: length						
	VG	short	3		√	√	√	
		medium	5	√				√
		long	7					
41	VG	Seed: number of colours						
		one	1	√		√	√	
		two	2		√			√
		more than two	3					
42	VG	Seed: main colour (largest area)						
		white	1					
		green or greenish	2					
		grey	3					
		yellow	4					
		beige	5					
		brown	6					
		red	7	√	√	√	√	√
		violet	8					
		black	9					
			10					
43	VG	Seed: predominant secondary colour						
		grey	1					
		yellow	2					
		beige	3					
		brown	4					
		red	5	√		√	√	
		violet	6					
		black	7		√			
		white	8					
		GREEN						
44	VG	Seed: distrivution of secondary colour						
		around hilum	1		√			
		on half of grain	2					
		on entire grain	3	√		√	√	√
46	VS	Time of flowering (50% of the plants with at least one flower)						
	VG	very early	1					
		early	3					
		medium	5	√			√	√

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				3					4
Kikohey	Thome	Thome	SSN	Ndabibi	Kikohey	Thome	Thome	SSN	Ndabibi
Mukura Noke	MUKURAN OKE	Mukura Noke	Mukura Noke	Yellow green	yellow green	Yellow green	Yellow green	Yellow Green	Saitoti
2023	2023	2024	2024	2022	2023	2023	2024	2024	2022
√	√	√	√		√	√	√	√	
				√					√
	√								
√		√	√						
					√	√	√	√	
				√					
√		√	√						
	√								√
√		√	√		√	√	√	√	
				√					
					√				
√	√	√	√						
				√		√	√	√	√
√									√
	√	√	√	√			√	√	

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					√	√	√	√	√
√		√	√	√					
	√								
					√				√
√		√	√	√		√	√	√	
	√								
	√	√	√						
√					√	√	√	√	
				√					√
						√			
				√	√		√	√	
√									
									√
	√	√	√						
						√			
						√	√	√	
√	√	√	√	√					√
√		√	√		√	√	√	√	
				√					√

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			5					6	
Thome	Thome	SSN	Ndabibi	Kikohey	Thome	Thome	SSN	Ndabibi	Kikohey
Saitoti	Saitoti	Saitoti	Rosecoco	Rosecoco	Rosecoco	Rosecoco	Rosecoco	yellow plain	yellow plain
2023	2024	2024	2022	2023	2023	2024	2024	2022	2023
√				√	√		√	√	√
	√	√	√						
√								√	
				√	√		√		√
√				√			√	√	√
					√				
				√					
√	√	√			√		√	√	√
			√						
√		√					√		√
	√			√	√			√	
			√						
√	√	√			√				
				√					

			√				√		√
								√	
				√			√	√	√
√	√	√			√				
			√						
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				√	√				
			√						√
								√	
√	√	√		√			√		
			√					√	√
	√	√	√	√	√		√	√	√
					√				
				√	√		√	√	√
	√	√	√						
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							√		
√	√	√		√				√	√
			√						

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√	√	√	√		√				
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							√	√	√
√	√	√		√	√				
			√						
			√					√	√
				√	√		√		
√	√	√							
√	√	√							
√	√	√	√	√	√		√	√	
√		√	√	√			√	√	

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			7						
Thome	Thome	SSN	Ndabibi	Kikohey	Thome	Kikohey	Thome	SSN	Kikohey
Yellow bean	Yellow bean	Yellow Bean	Kifamu	Kifamu	Kifamu	kifamu	Kifamu	Kifamu	Kirarusha
2023	2024	2024	2022	2023	2023	2023	2024	2024	2023
			√	√	√	√	√	√	√
√	√	√							
			√						√
				√			√	√	
			√						√
				√	√		√	√	
									√
√	√	√	√	√	√	√		√	
							√		
√									
							√		√
		√	√	√	√	√		√	
			√		√			√	
		√		√		√	√		

									√
√									
√		√	√		√		√	√	√
				√		√			
√			√						
				√	√	√	√		√
√		√							
				√	√			√	√
			√						
√		√	√		√		√		√
				√		√		√	
√		√	√	√	√	√	√	√	√
√		√							
				√	√	√			
			√				√	√	√

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					v		v	v	v
v		v	v						
				v	v	v	v	v	v
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			v					v	
				v		v	v		
v		v							
				v		v	v	v	
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			v						
v		v	v	v	v	v	v	v	v
				v		v		v	
v			v						

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Thome	SSN	THOME	SSN	THOME	KIKOEY	SSN	THOME	Kikohey	KIKOPEY
Kirarusha	Kirarusha	KABUNDA	KABUNDA	KABUNDA	KABORO	KABORO	Kaboro	wairimu small	Mwiteman ia brown
2023	2024	2023	2024	2024	2023	2024	2024	2023	2023
√	√	√	√	√				√	
					√	√	√		√
√	√								
		√	√	√				√	
√	√							√	
		√	√	√					
√	√	√	√	√	√	√	√		√
								√	
√						√	√		
	√	√			√				
				√					√
			√						
√				√	√	√		√	√
	√		√				√		

		✓							
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
				✓					
✓		✓							
								✓	
					✓				
	✓	✓	✓	✓		✓	✓		✓
								✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓		✓	✓	✓
						✓			
		✓	✓	✓		✓			✓
					✓			✓	
	✓						✓		

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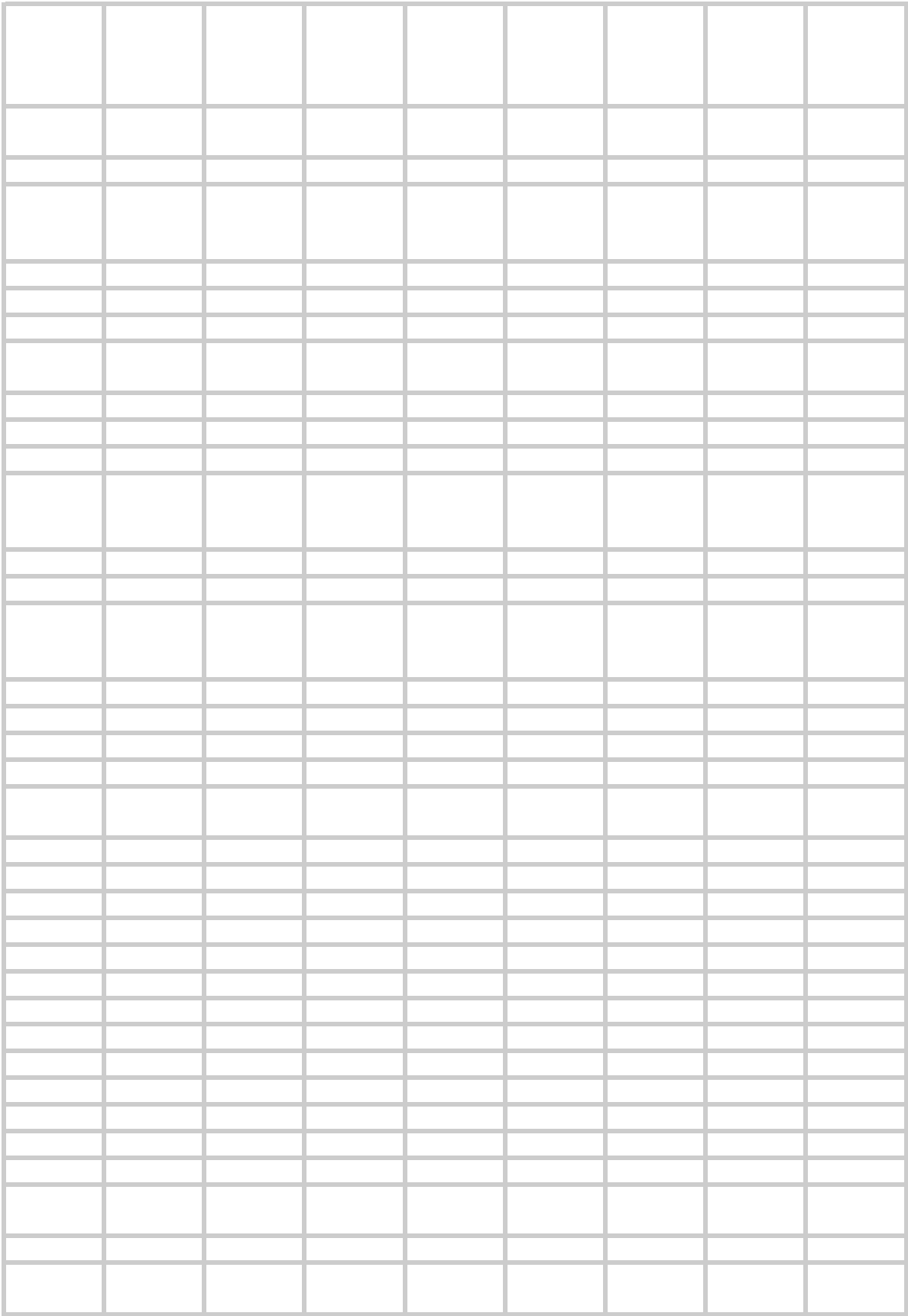
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KERARUSH A BLACK	NUNGU NUNGU	MWITEMA NIA	ARMY GREEN	ARMY GREEN	MUKURA	KAHATO	NYAKAIRU	KABORO	GITURU
2023	2023	2023	2023	2024	2023	2023	2023	2023	2023
√	√		√	√		√			√
		√			√		√	√	
	√		√	√					√
						√			
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√									√
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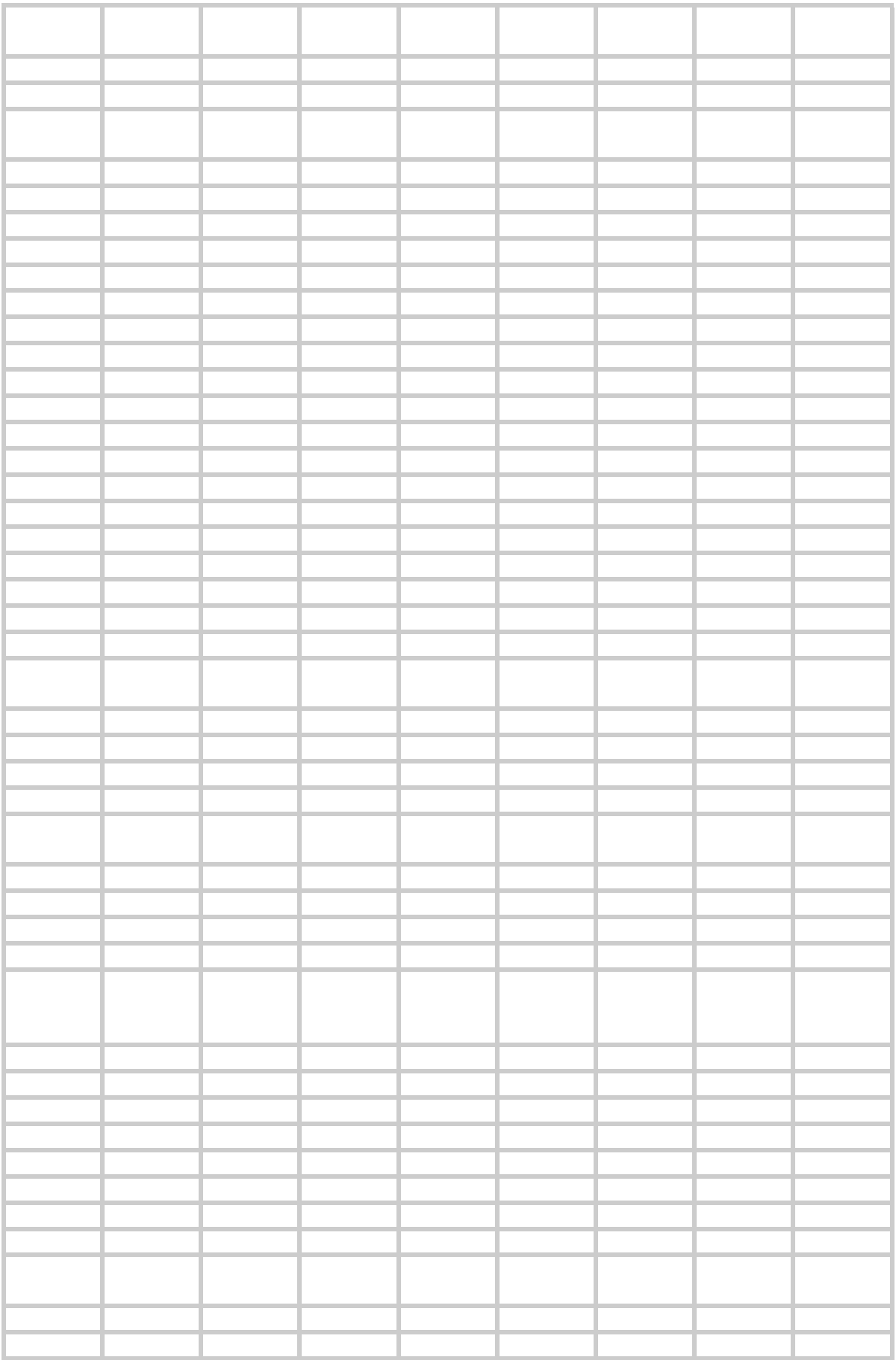
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		√				√	√		
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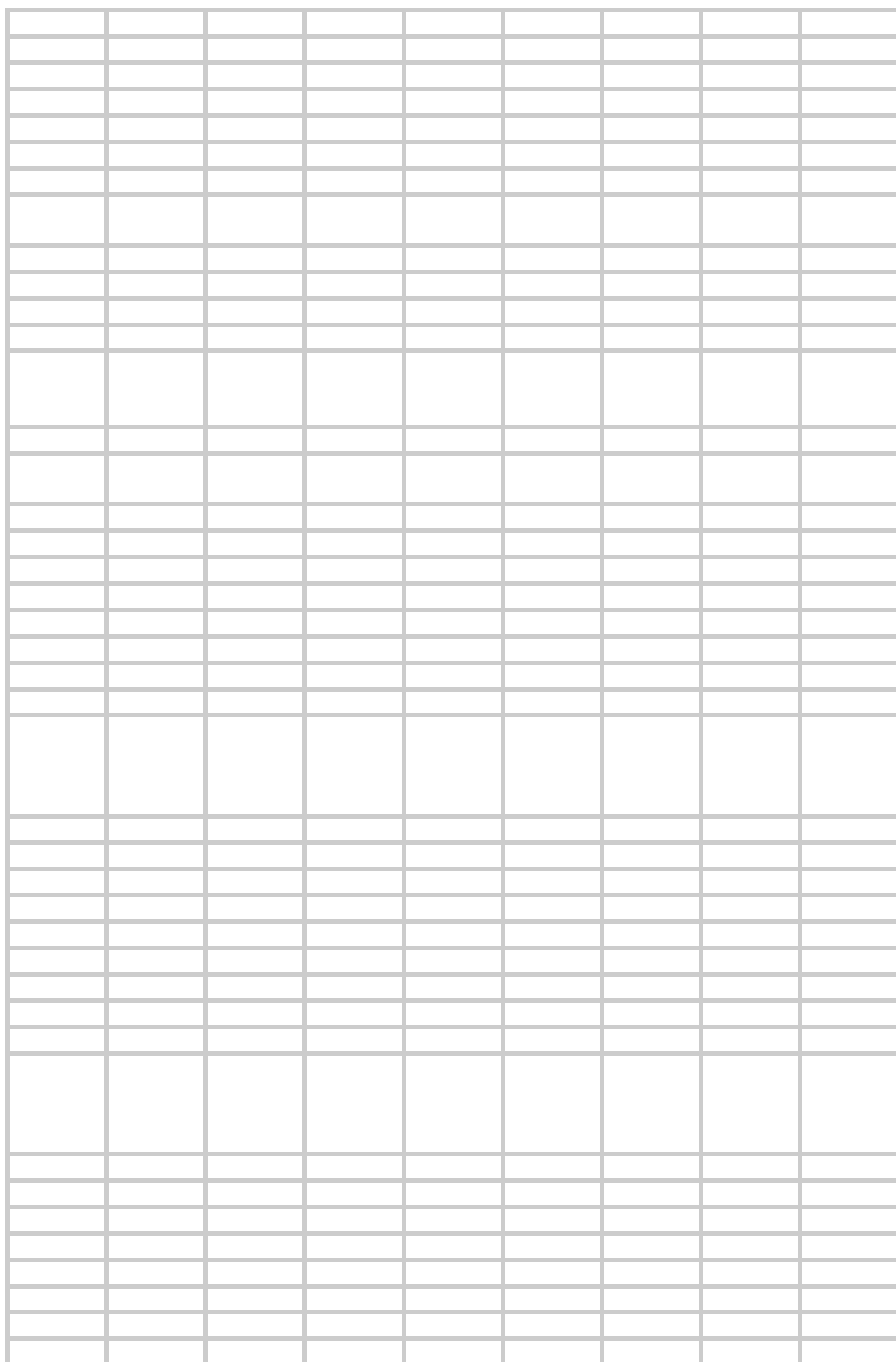
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			√	√				√	
		√			√	√	√		
√									√
	√		√	√		√	√	√	√
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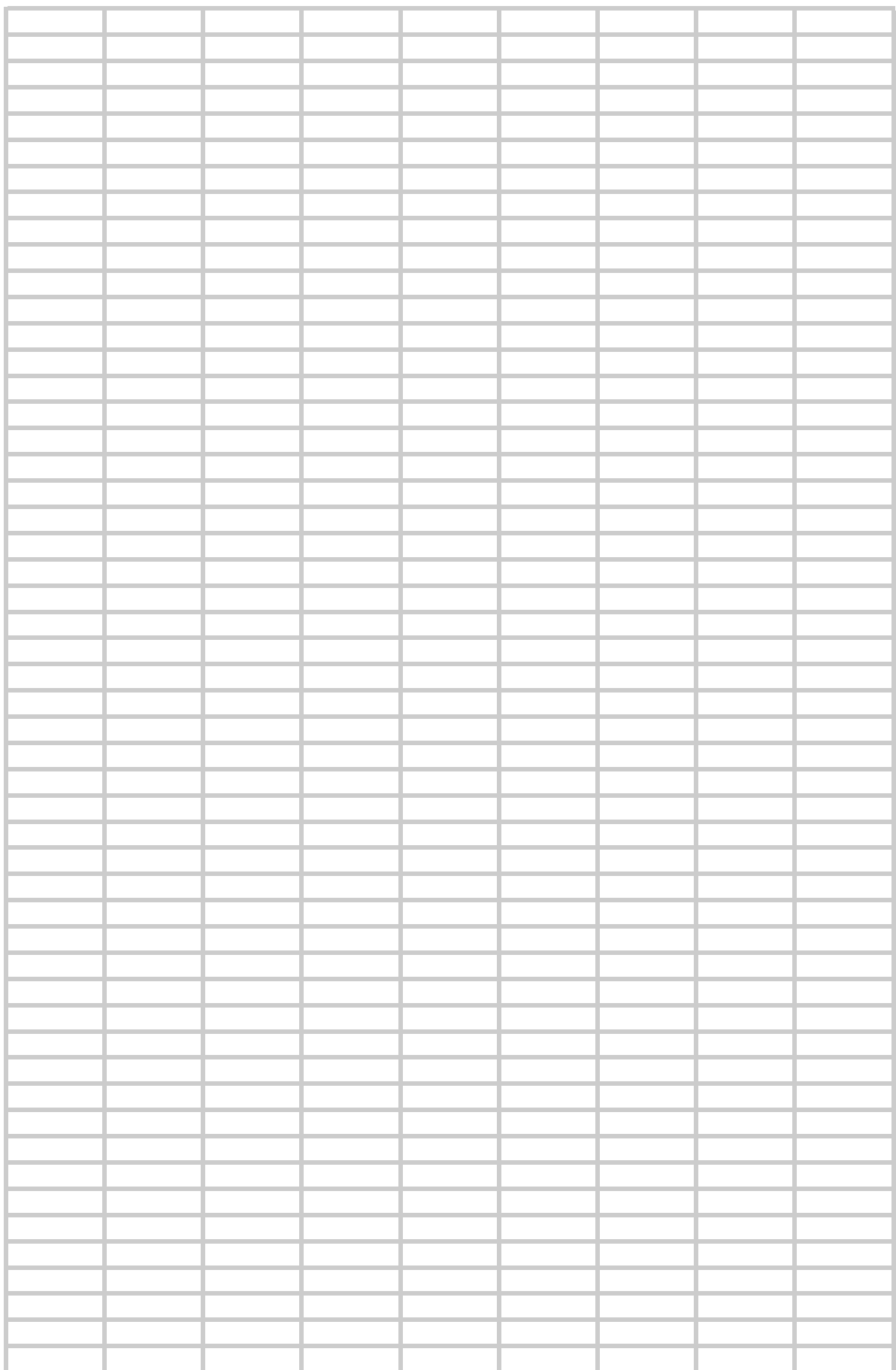
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			Songoloi	Kihaiti B	Kiahiti B		Songoloi	KIHATTI
Solanum tuberosum (under OSSS T&C)		WANJIKU	WANJIKU	WANJIKU	Wanjiku	KIBURUBU	KIBURUBU	KIBURURU
Characteristic	Note	2022	2023	2023	2024	2022	2023	2023
Lightsprout: anthocynin coloration of base								
absent or very weak	1							
weak	3					√	√	√
medium	5	√	√	√	√			
strong	7							
very strong	9							
Lightsprout: pubescence of base								
absent or very weak	1						√	
medium	3		√			√		√
strong	5	√						
very strong	7			√	√			
	9							
Lightsprout: anthocyanin colouration of tip								
absent or very weak	1						√	
weak	3							
medium	5			√	√	√		√
strong	7		√					
very strong	9	√						
Lightsprout: number of root tips								
few	3					√		
medium	5	√	√	√	√			
many	7							
Plant: foliage structure								
stem type	1	√				√	√	
intermediate type	2		√	√	√			√
leaf type	3							
Plant: growth habit								
upright	3	√	√		√	√	√	√
semi-upright	5			√				
spreading	7							
Stem: anthocyanin colouration								
absent or very weak	1							
weal	3		√					
medium	5	√		√	√	√		

strong	7							
very strong	9						√	√
Leaf: openness								
closed	1							
intermediate	3	√						
open	5		√	√	√	√	√	√
Leaf: presence of secondary leaflets								
weak	3							
medium	5	√	√	√	√	√	√	√
strong	7							
Leaf: anthocyanin colouration on midrib of upper side								
absent or very weak	1		√	√	√	√		
weak	3							
medium	5						√	√
strong	7							
very strong	9	√						
Flower bud: anathocyanin colouration								
absent or very weak	1					√		
weak	3							
medium	5	√	√	√	√			
strong	7						√	√
very strong	9							
Inflorescence: size								
small	3	√						
medium	5						√	√
larage	7		√	√	√			
absent or very weak						√		
Inflorescence: anthocyanin colouration on peduncle (stem)								
absent or very weak	1		√	√	√	√		
weak	3	√						
medium	5							
strong	7						√	√
very stron	9							
Flower crown: size								
very small	1							
small	3	√						
medium	5					√	√	√
large	7		√	√	√			
very large	9							

Flower: proportion of blue in anthocyanin colouration on inner side								
absent or low	1	√	√	√	√	√	√	√
medium	2							
high	3							
Flower crown: extent of anthocyanin colouration on inner side								
absent or very small	1	√			√	√		√
small	3							
medium	5							
large	7							
very large	9							
Plant: height								
very short	1							
short	2							
medium	3					√		
tall	4	√	√	√	√		√	√
very tall	5							
Plant: time of maturity								
very early	1		√	√	√		√	√
early	3							
medium	5	√						
late	7							
very late	9					√		
Tuber shape								
round	1					√		
short oval	2	√						
oval	3						√	√
long oval	4							
long oval	5		√	√	√			
very long	6							
Tuber: depth of eyes								
very shallow	1							√
shallow	3			√				
medium	5	√			√	√	√	
deep	7							
very deep	9							
Tuber: colour of skin								
light beige	1							
yellow	2							
reddish brown	3		√	√	√			

light red	4					✓		
medium red	5	✓						
dark red	6						✓	✓
red parti coloured	7							
blue	8							
blue parti coloured	9							
Smoothness of skin								
smoothness of skin	1	✓	✓		✓			
medium	2			✓		✓		
rough	3						✓	✓
Tuber: colour of flesh								
white	1							✓
cream	2		✓	✓	✓			
light yellow	3	✓				✓		
medium yellow	4							
dark yellow	5							
red	6							
red parti-coloured	7						✓	
blue	8							
blue parti-coloured	9							

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Kihaiti B		Songoloi	KIAHITI B	Kihaiti B	Kihaiti B	Kihaiti B	KIAHITI B		
SHANGI	DERA CIAN	DERA CIAN	NDERASHI	NGOROBU	Ngorobu	NGOROBU	TIGONI	TIGONI	DORA IGUR
2024	2022	2023	2024	2022	2024	2023	2024	2023	2022
		√						√	
							√		
									√
√									
	√		√	√	√	√			
√							√	√	√
	√	√	√	√	√	√			
		√	√		√	√			√
				√			√	√	
√	√								
		√	√						
	√			√	√	√	√	√	√
√									
		√	√		√	√	√	√	
√	√			√					√
				√				√	
√							√		√
	√		√		√	√			
	√		√						
√					√	√	√		

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Songoloi			KIAHITI B	KIAHITI B	KIAHITI B	
DORA IGUF	DISARI	MUKURING	THIMATHU	SHEHEREKI	STEPHEN	KAMUTHUGU
2023	2023	2023	2024	2024	2024	2023
√		√				
						√
	√					
			√	√	√	
		√				
			√			√
					√	
				√		
		√				√
	√		√			
√				√	√	
√		√				√
	√		√			
				√	√	
√	√	√	√		√	
						√
				√		
√	√	√		√		
			√		√	√
	√	√				
√			√			

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				√		
	√				√	
			√			
	√			√	√	√
			√			
				√	√	
	√					
						√

		Solanum Lycopersicum (under OSSS T&C)					
				kikohey	Belakom	Kikohey	kikohey
				Mutukanio	Mutukanio	Mucomoko	Mucomoko
CPVO No		Characteristic	Note	2022	2023	2022	2023
2	VG	Plant: growth type					
		determinate	1	✓	✓		✓
		indeterminate	2				
	VG/M 3 S	<u>Only varieties with plant growth type determinate: Plant: number of inflorescences on main stem (side shoots to be removed)</u>					
		few	3				
		medium	5		✓	✓	
		many	7	✓			✓
4	VG	Stem: anthocyanin coloration					
		absent or very weak	1				
		weak	3				
		medium	5	✓	✓	✓	✓
		strong	7				
		very strong	9				
	VG/M 5 S	<u>Only varieties with plant growth type indeterminate: Stem: length of internode</u>					
		short	3				
		medium	5	✓	✓		
		long	7			✓	
	VG/M 6 S	<u>Only varieties with plant growth type indeterminate: Plant: height</u>					
		very short	1			✓	
		short	3				
		medium	5	✓	✓		
		long	7				
		very long	9				

7	VG	Leaf: attitude					
		erect	1				
		semi-erect	3			v	v
		horizontal	5				
		semi-drooping	7	v	v		
		drooping	9				
10	VG	Leaf: type of blade					
		pinnate	1				
		bipinnate	2	v	v	v	v
16	VG/M S	Inflorescence: type					
		mainly uniparous	1				
		equally uniparous and multiparous	2				
		mainly multiparous	3	v	v	v	v
17	VG	Flower: colour					
		yellow	1	v	v	v	v
		orange	2				
21	VG	Fruit: green shoulder (before maturity)					
		absent	1				
		present	9	v	v	v	v
25		Fruit: green stripes (before maturity)					
		absent	1				
		present	9	v	v	v	v
26	VG	Fruit: size					
		very small	1				
		small	3	v	v		v
		medium	5			v	
		large	7				
		very large	9				
27	VG/M S	Fruit: ratio length/diameter					
		very small (very compressed)	1				
		small (moderately compressed)	3				
		medium	5	v	v	v	v
		large (moderately elongated)	7				
		very large (very elongated)	9				

28	VG	Fruit: shape in longitudinal section					
		flattened	1				
		oblate	2				
		circular	3		v		
		oblong	4	v		v	
		cylindric	5				
		elliptic	6				v
		cordate	7				
		ovate	8				
		obovate	9				
		pyriform	10				
		obcordate	11				
30	VG	Fruit: depression at peduncle end					
		absent or very weak	1	v	v		
		weak	3			v	v
		medium	5				
		strong	7				
35	VG	Fruit: thickness of pericarp					
		very thin	1				
		thin	3				
		medium	5	v	v	v	
		thick	7				v
		very thick	9				
36	VG/M S	Fruit: number of locules					
		only two	1	v	v		
		two and three	2			v	v
		three and four	3				
		four, five or six	4				
		more than six	5				
37	VG	Fruit: colour at maturity					
		cream	1				
		yellow	2				
		orange	3				
		pink	4				
		red	5	v	v		v
		brown	6				
		green	7			v	

39	VG	Fruit: glossiness of skin					
		weak	1				
		medium	2	v	v		
		strong	3			v	v
40	VG	Fruit: firmness					
		very soft	1				
		soft	3	v			
		medium	5		v	v	v
		firm	7				
		very firm	9				
41	MS	Time of flowering					
		early	3	v	v	v	v
		medium	5				
		late	7				
42	MG	Time of maturity					
		very early	1				
		early	3	v	v		v
		medium	5				
		late	7			v	
		very late	9				
43		Resistance observed (open question)					
		susceptible					
		moderately resistant		v		v	v
		highly resistant			v		
45.2 (*)	VG	Resistance to Fusarium oxysporum f. sp. lycopersici (Fol)					
		- Race 1EU/2US					
		absent	1	v	v	v	v
		present	9				
49	VG	Resistance to Phytophthora infestans (Pi)					
		absent	1			v	
		present	9	v	v		v

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Belakom	Kikopey	kikopey	Belakom	Kikopey	Kikopey	Belakom	
Mucomoko	CHERRY RED	cherry red	cherry red	Cherry yellow	Cherry yellow	cherry yellow	
2023	2022	2023	2023	2022	2023	2023	
√	√			√			
		√	√		√	√	
				√			
√							
	√						
√					√	√	
		√	√	√			
	√						
		√	√		√	√	
	√			√			
					√	√	
	√	√	√	√			

✓		✓	✓	✓	✓	✓
	✓					
✓	✓	✓	✓	✓	✓	✓
	✓			✓	✓	✓
✓		✓	✓			
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
				✓		
✓	✓	✓	✓		✓	✓
	✓	✓	✓		✓	✓
✓				✓		
	✓	✓	✓		✓	✓
✓				✓		

	✓					
		✓	✓		✓	✓
				✓		
✓						
	✓	✓	✓		✓	
✓				✓		✓
					✓	✓
✓		✓	✓	✓		
	✓					
✓		✓	✓		✓	✓
	✓			✓		
				✓	✓	✓
✓	✓	✓	✓			

				✓		
✓	✓	✓	✓		✓	✓
		✓	✓			
✓					✓	
	✓			✓		✓
✓	✓			✓	✓	✓
		✓	✓			
	✓					
✓		✓	✓	✓	✓	✓
✓				✓	✓	✓
	✓	✓	✓			
✓	✓		✓		✓	
		✓		✓		✓
✓						
	✓	✓	✓	✓	✓	✓

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Black nightshade (under OSSS T&C)						
Name of cultivar					Kienyeji kiarie	Kienyeji kiarie
Village					langalanga	Langalanga
No	Year	Note	v		2022	2023
1	Growth habit					
	Erect	1		v		v
	Prostrate	2				
2	Branching index(Score if erect)					
	No branches	1				
	Few branches	2		v		
	Many branches	3				v
	Branches all along the stem	4				
3	Leaf Color					
	Pale Green	1				
	Dark Green	2		v		v
	Others (Specify)	3				
4	Stem pigmentation					
	Absent	1				
	Present	2		v		v
	Mixture	x				
5	Leaf pubescence					
	None	0				v
	Low	3		v		
	Conspicuous	7				
6	Leaf pigmentation					
	Entire lamina purple or pink	1				
	Basal area pigmented	2				
	Central spot	3				
	Two stripes (V-shaped)	4				v
	One stripe (V-shaped)	5				
	Margin and vein pigmented	6				
	One pale green or chlorotic stripe on normal green	7				v
	Normal green	8				v
	Dark green	9				
	Other(Specify)	10				
	Mixture	x				
No	Characteristic	Note	v			
7	Leaf shape					
	Lanceolate	1				
	Elliptical	2				
	Cuneate	3				
	Obovate	4				v
	Ovatainate	5				

	Rhombotic	6			
	Oval	7			
	Other(Specify)	8			
	Mixture	x			
8	Leaf margin				
	Entire	1	v		
	Crenate	2			
	Undulate	3		v	
	Other	4			
	Mixture	x			
9	Color of fruit maturity				
	Green	1	v		
	Yellow	2			
	Red	3			
	Purple	4			
	Other	specify	orange		v
10	Size of Fruit				
	Small		v		v
	Medium	1			
	Big	2			
		3			
11	Date of flowering (from sowing to 50% inflorescence)			30-35 days	
12	Inflorescence color	1			
	Purple	2			
	White	3		v	v
	Pink	4			
	Red	5			
	Other	specify			
	Mixture	x			
13	Seed Color				
	Pale yellow	1			v
	Pink	2			
	Red	3		v	
	Brown	4			
	Black	5			
	Mixture	x			
14	Seed Shape				
	Round	1		v	
	Ellipsoid or ovoid	2			v
15	Pest Susceptibility - Aphids				
	Not present	1			
	Present	2		v	v
15a	Severity Score				
	scores	Score		3	2
16	Pest Susceptibility: Cut Worms				

		Not present	1			v
		Present	2		v	
		Severity (score 1-5)	specify		4	
17		Disease Susceptibility: Bacterial Blight				
		Not present	1			v
		Present	2		v	
		Severity (score 1-5)	specify		4	
18		Disease Susceptibility: -Early Blight				
		Not present	1			v
		Present	2		v	
		Severity (score 1-5)	specify		3	
19		Disease Susceptibility: Powdery Mildew				
		Not present	1			v
		Present	2		v	
		Severity (score 1-5)	specify		1	

Kienyeji kiarie	Gicheke narrow	Gicheke narrow	Gicheke Narrow	Girigacha	Girigacha
Mzee wanyama 2023	langalanga 2022	Langalanga 2023	Mzee wanyama 2023	langalanga 2022	langalanga 2023
√	√	√	√	√	√
				√	
	√	√			√
√			√		
				√	
√	√	√	√		√
√		√	√		√
	√				
√			√		
	√	√		√	√
√		√			
			√		√
√					√
√					√
		√	√		
		√	√		
√					√

				✓	✓
	✓	✓	✓		
✓					
	✓			✓	
		✓	✓		✓
✓					
✓			✓		
	✓	✓			
				✓	✓
	70	65 days	77 days		65days
	✓	✓	✓	✓	✓
	✓	✓	✓		
					✓
	✓			✓	
	✓				
		✓	✓		✓
	✓		✓		
		✓	✓	✓	✓
	0	2	2	2	3

√		√	√	√	√
	√				
	1				
		√			√
√	√		√	√	
4	4		5	4	
		√			
√	√		√	√	√
4	5		5	3	
		√			
√	√		√	√	√
0	1		4	5	

Girigacha	Kutambaa	Kutambaa	Kutambaa
Mzee			
Wanyama	langalanga	langalanga	Mzee wanyama
2023	2022	2023	2023
√	√	√	√
	√		
√		√	√
√	√	√	√
√	√	√	√
		√	√
√	√		
		√	√
√			
√		√	√
√			
		√	√
√		√	√

√			
	√	√	√
	√		
√		√	√
	√	√	√
√			
63 days		67 days	69 days
√	√	√	√
√		√	√
	√		
	√	√	√
√			
		√	√
√	√		
4			

v	v		v
		v	
		1	
v		v	v
	v		
	5		
			v
v	v	v	
	3		
			v
v	v	v	
	5		
			0

		Beta vulgaris - Spinach (Swiss Chard) (under OSSS T&C)				
		Name of cultivar		Barika (plot 1)	Barika (plot 1)	Dark hook (plot 2)
		Village		Fanikisha SHG	Mwiciringiri	Fanikisha SHG
		Year		2022	2023	2022
VO No		Characteristic	Note			
1	VG	Seedling: hypocotyl colour				
		white	1			
		green	2			
		yellow	3			
		reddish	4	√	√	√
2	MS/VG	Leaf: length				
		short	3			
		medium	5		√	
		long	7	√		√
3	VG	Leaf: attitude				
		erect	1			
0		semi-erect	3	√	√	√
		prostrate	5			
6	VG	Leaf blade: colour				
		green				√
		purple	1	√	√	
			2			
10	VG	Leaf blade: recurving of the margin				
		absent or very weak	1			√
		weak	3			
		medium	5			
		strong	7	√	√	
11	VG	Leaf blade: glossiness				
		weak	3	√	√	
		medium	5			√
		strong	7			
12	VG	Leaf blade: blistering				
		weak	3			
		medium	5			
		strong	7	√	√	√
13	MS/VG	Petiole: length				
		very short	1			
		short	3			
		medium	5		√	
		long	7	√		√
		very long	9			
14	MS/VG	Petiole: width				
		very narrow	1			
		narrow	3	√	√	√
		medium	5			

		broad	7			
		very broad	9			
15	VG	Petiole: curvature in cross section				
		absent or weak	1	√	v	√
		medium	3			
		strong	5			
16	VG	Petiole: colour				
		white	1	√	v	
		green	2			
		yellow	3			
		red	4			√
		purple	5			
18	VG	Bolting tendency				
		absent or weak	1			
		medium	2			√
		strong	3	√		

Dark hook (plot 2)	Red stock(plot 3)	Red stock(plot 3)	Green stock (plot 4)	Green stock (plot 4)
Fanikisha SHG	Fanikisha SHG	songoloi	Fanikisha SHG	Fanikisha SHG
2023	2022	2023	2022	2023
√	√	√	√	√
	√		√	√
		√		
√				
			√	√
√	√	√		
√	√	√	√	√
√				
			√	√
	√	√		
√	√	√	√	√
			√	√
√	√	√		
	√	√	√	√
√				
	√	√	√	
√				√
	√	√	√	
√				

√	√		√	√
		√		
	√	√		
√			√	√
			√	
	√			

Allium Fistulosum, Spring Onion (under							
		Name of variety		Mashaki small	Mahaki small	Mashaki small	Mashaki big
		Village		Maraigushu	Gilgil	Maraigushu	Maraigushu
		Year		2022	2023	2023	2022
PVO No		Characteristic	Note				
1	VG	Plant: growth type					
		single pseudostem	1				✓
		multi-pseudostem	2	✓	✓	✓	
2	VG	For multi-pseudostem varieties only: Plant: number of pseudostems					
		few	3				✓
		medium	5		✓		
		many	7	✓		✓	
3	VG/MS	Plant: height					
		short	3				✓
		medium	5	✓	✓	✓	
		tall	7				
4	VG/MS	Plant: number of leaves per pseudostem					
		few	3		✓	✓	✓
		medium	5	✓			
		many	7				
5	VG	Foliage: attitude					
		erect	1	✓	✓	✓	✓
		semi-erect	3				
		horizontal	5				
6	VG	Foliage: waxiness					
		weak	3				✓
		medium	5	✓		✓	
		strong	7		✓		
9	VG/MS	Leaf: length					
		short	3		✓	✓	✓
		medium	5	✓			
		long	7				
10	VG/MS	Leaf: diameter					
		small	3		✓	✓	✓
		medium	5	✓			
		large	7				
11	VG	Leaf: curvature					
		absent or very weak	1				✓

		weak	3				
		medium	5	√	√	√	
		strong	7				
		very strong	9				
12	VG/MS	Pseudostem: length					
		short	3				√
		medium	5	√	√	√	
		long	7				
13	VG/MS	Pseudostem: diameter					
		small	3				√
		medium	5	√	√	√	
		large	7				
14	VG	Pseudostem: anthocyanin coloration					
		absent	1				√
		present	9	√	√	√	
15	VG	Pseudostem: bulbing					
		absent or very weak	1	√	√	√	√
		weak	2				
		strong	3				
16	VG/MS	Time of flowering					
		early	3				
		medium	5				
		late	7	√	√	√	√

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√	√
√	
	√
√	√
√	√
√	
	√

		Phaseolus coccineus (under OSSS T&C)		BLACK NON CLIMBER	BLACK NON CLIMBER	NON CLIMBER	WHITE NON CLIMBER
PVO No		Characteristic	Note	2022	2023	2022	2023
1	VG	Plant: anthocyanin coloration of					
		absent	1				
		present	9	√	√	√	√
2	VG	Plant: growth type					
		dwarf	1	√	√	√	√
		climbing	2				
5	VG	Climbing bean varieties only: Plant:					
		speed of climbing					
		slow	3				
		medium	5				
		rapid	7				
# #	VG	Terminal leaflet: shape					
		triangular	1			√	
		triangular to circular	2	√	√		√
		circular	3				
		circular to quadrangular	4				
		quadrangular	5				
# #	VG	Flower: colour of standard					
		white	1			√	√
		pink	2				
		red	3	√	√		
# #	VG	Flower: colour of wing					
		white	1			√	√
		pink	2				
		red	3	√	√		

# #	VG	Pod: suture strings					
		absent	1	√	√	√	√
		present	9				
# #	VG	Pod: degree of curvature					
		absent or very slight	1				
		slight	3	√		√	
		medium	5		√		√
		strong	7				
		very strong	9				
# #	VG	Pod: shape of curvature					
		concave	1			√	√
		s-shaped	2	√	√		
		convex	3				
# #	VG	Pod: texture of surface					
		smooth or slightly rough	1				
		moderately rough	2	√	√	√	√
		very rough	3				
# #	VG	Pod: curvature of beak					
		absent or very weak	1				
		weak	3			√	√
		medium	5		√		
		strong	7	√			
		very strong	9				
# # # #	VG	Seed: shape of median longitudinal section					
		narrow elliptic	1				
		elliptic	2	√	√		
		broad elliptic	3				
		kidney shaped	4			√	√

# # #	VG	Seed: shape of median cross-section					
		narrow elliptic	1	√		√	
		elliptic	2		√		√
		circular	3				
# #	VG	Seed: number of colours					
		one	1			√	√
		two	2	√	√		
#	VG	Seed: main colour					
		white	1			√	√
		light tan	2				
		pinkish purple	3				
		violet	4				
		black	5	√	√		
# # # #	VG	<u>Varieties with seeds with more than one colour only:</u> Seed: predominant secondary colour					
		brown					
		black	1				
		purple	2	√	√		
# # # #	VG	<u>Varieties with seeds with more than one colour only:</u> Seed: distribution of predominant secondary colour					
		spotted	1				
		mottled	2	√	√		
# # # #	VG	<u>Varieties with seeds: main colour white only:</u> Seed: veining					
		weak	3				
		medium	5				
		strong	7			√	√

#	VG	Seed: colour of hilar ring					
#		same colour as seed	1			✓	✓
		different colour to seed	2	✓	✓		
#	MG	Time of flowering (50% of the plants with at least one flower)					
#		early	3	✓	✓	✓	✓
#		medium	5				
#		late	7				

PURPLE FLOWERED	PURPLE FLOWERED	GACHURI FLOWERED	GACHURI FLOWERED	GASHURI	GASHURI	BLACK CLIMBER	BLACK CLIMBER
2022	2023	2022	2023	2022	2023	2022	2023
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓						
		✓	✓	✓	✓	✓	✓
			✓				
		✓		✓	✓		
						✓	✓
✓	✓	✓	✓	✓	✓	✓	
							✓
		✓	✓	✓	✓		
✓	✓					✓	✓
		✓	✓	✓	✓		
✓	✓					✓	✓

✓	✓						
			✓		✓	✓	✓
					✓	✓	
	✓		✓				✓
✓							
✓	✓		✓		✓	✓	✓
✓	✓					✓	✓
			✓		✓		
✓	✓		✓		✓		
						✓	✓
✓	✓						
					✓		
			✓			✓	✓

✓	✓		✓			✓	✓
					✓		
					✓		
✓	✓		✓				✓
			✓				
✓	✓				✓		
							✓
			✓				✓
✓	✓						
✓	✓		✓				
							✓

✓	✓		✓		✓		✓
✓	✓						✓
		✓	✓	✓	✓	✓	

	Ipomea batatas (under OSSS T&C)							
	Name of cultivar		Naironi	Naironi	Purple long	Purple long	Ngwachi K	Ngwachi K
	Village		Mzee wa Nyama	Mwiringiri	Mzee wa Nyama	Mwicingiri ri	Mzee wa Nyama	Mwicingiri
	Year		2022	2023	2022	2023	2022	2023
No	Characteristic	Note	√					
4.1.1	Twining (ability)							
	Non-twining	0						
	Slightly twining	3					√	
	Moderately twining	5						√
	Twining	7			√	√		
	Very twining	9	√	√				
4.1.2	Plant growth habit							
	Erect (<75cm)	3						
	Semi-erect (75-150 cm)	5						
	Spreading (151-250 cm)	7	√	√	√	√	√	√
	Extremely spreading (>250 cm)	9						
4.1.4.1	Vine internode length							
	Very short (<3 cm)	1			√		√	√
	Short (3-5 cm)	3	√	√		√		
	Intermediate (6-9 cm)	5						
	Long (10-12 cm)	7						
	Very long (>12 cm)	9						
4.1.5.1	Predominant vine colour							
	Green	1	√	√			√	√
	Green with few purple spots	2						
	Green with many purple spots	3						
	Green with many dark purple spots	4						
	Mostly purple	5			√	√		
	Mostly dark purple	6						
	Totally purple	7						
	Totally dark purple	8						
4.1.5.2	Secondary vine colour							
	Absent	0						
	Green base	1						
	Green tip	2						
	Green nodes	3						
	Purple base	4	√	√				
	Purple tip	5			√	√		
	Purple nodes	6					√	√
	Other (specify in the descriptor Notes)	99						

4.1.6	Vine tip pubescence					
	Absent	0		✓	✓	✓
	Sparse	3	✓	✓		
	Moderate	5				
	Dense	7				
4.1.7.1	General outline of the leaf					
	Rounded	1				
	Reniform (kidney-shaped)	2				
	Cordate (heart-shaped)	3	✓	✓	✓	✓
	Triangular	4				
	Hastate (trilobular and spear-shaped with the basal lobes more or less divergent)	5		✓	✓	
	Lobed	6				
	Almost divided	7				
4.1.7.2	Leaf lobes type					
	No lateral lobes (entire)	0			✓	✓
	Very slight (teeth)	1				
	Slight	3				
	Moderate	5		✓	✓	
	Deep	7	✓	✓		
	Very deep	9				
4.1.7.3	Mature leaf size					
	Small (<8 cm)	3	✓			
	Medium (8-15 cm)	5		✓	✓	✓
	Large (16-25 cm)	7		✓	✓	✓
	Very large (>25 cm)	9				
4.1.10.1	Mature leaf colour					
	Yellow-green	1	✓	✓		
	Green	2			✓	✓
	Green with purple edge	3		✓	✓	
	Greyish-green (due to dense pubescence)	4				
	Green with purple veins on upper surface	5				
	Slightly purple	6				
	Mostly purple	7				
	Green upper surface, purple lower surface	8				
	Purple on both surfaces	9				
4.1.10.2	Immature leaf colour					
	Yellow-green	1				

	Green	2					√	√
	Green with purple edge	3	√	√				
	Greyish-green (due to dense pubescence)	4						
	Green with purple veins on upper surface	5						
	Slightly purple	6						
	Mostly purple	7			√	√		
	Green upper surface, purple lower surface	8						
	Purple on both surfaces	9						
4.1.11	Petiole length							
	Very short (<10 cm)	1						
	Short (10-20 cm)	3	√		√	√	√	√
	Intermediate (21-30 cm)	5		√				
	Long (31-40 cm)	7						
	Very long (>40 cm)	9						
4.1.12	Petiole pigmentation							
	Green	1			√	√	√	√
	Green with purple near stem	2						
	Green with purple near leaf	3	√	√				
	Green with purple at both ends	4						
	Green with purple spots throughout petiole	5						
	Green with purple stripes	6						
	Purple with green near leaf	7						
	Some petioles purple, some others green	8						
	Totally or mostly purple	9						
4.2.1	Tuber shape							
	Round	1	√	√				
	Round elliptic	2						
	Elliptic	3						
	Ovate	4						
	Obovate	5						
	Oblong	6						
	Long oblong	7						
	Long elliptic	8			√	√		
	Long irregular or curved	9					√	√

4.2.2	Tuber surface defects					
	Absent	0	√			
	Alligator-like skin	1				
	Veins	2				
	Shallow horizontal constrictions	3		√	√	√
	Deep horizontal constrictions	4				
	Shallow longitudinal grooves	5	√			
	Deep longitudinal grooves	6				
	Deep constrictions and deep grooves	7				
	Other (specify in the descriptor Notes)	99				
4.2.4.1	Predominant tuber skin colour					
	White	1				
	Cream	2			√	√
	Yellow	3				
	Orange	4				
	Brownish orange	5				
	Pink	6				
	Red	7	√	√	√	√
	Purple-red	8				
	Dark purple	9				
4.2.4.3	Secondary tuber skin colour					
	Absent	0	√	√	√	√
	White	1				
	Cream	2		√	√	
	Yellow	3				
	Orange	4				
	Brownish orange	5				
	Pink	6				
	Red	7				
	Purple-red	8				
	Dark purple	9				
4.2.5.1	Predominant tuber flesh colour					
	White	1	√	√		√
	Cream	2		√	√	√
	Dark cream	3				
	Pale yellow	4				
	Dark yellow	5				
	Pale orange	6				
	Intermediate orange	7				
	Dark orange	8				
	Strongly pigmented with anthocyanins	9				

6.2.9.1 Consistency of boiled tuber (softness/hardness)

Watery

Extremely soft

Very soft

Soft

Slightly hard

Moderately hard

Hard

Very hard

Very hard and non-cooked

1					
2					
3					
4					
5	√	√	√		
6					
7				√	√
8					
9					
6.2.9.3					
Texture of boiled tuber flesh (humidity)					
1 Dry					
3 Somewhat dry	√	√	√	√	√
5 Intermediate					
7 Moist					
9 Very moist					

Purple Small	Purple small	Opera Kadogo	Opera Kadogo	Nyakamolo	Nyakamolo	purple yellow	Purple yellow	Engorongoro
Mzee wa Nyama	Mwicingiri	Mzee wa Nyama	Mwicingiri	Mzee wa Nyama	Mwicingiri	Mzee wa Nyama	Mwicingiri	Mzee wa Nyama
2022	2023	2022	2023	2022	2023	2022	2023	2022
								✓
✓	✓							
		✓	✓				✓	
				✓	✓	✓		
✓	✓	✓						
			✓			✓	✓	
								✓
				✓	✓			
✓	✓	✓	✓	✓			✓	✓
					✓			
				✓	✓			✓
		✓	✓					
						✓	✓	
			✓					
✓	✓							
		✓	✓					✓
					✓			
	✓					✓	✓	
✓								

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				✓	✓			
						✓	✓	
		✓	✓					
✓	✓							
✓				✓	✓			✓
	✓					✓	✓	
		✓	✓					
		✓	✓	✓	✓			✓
						✓	✓	
✓	✓							
✓	✓							
		✓	✓		✓	✓	✓	✓
				✓				

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Engorongongo	purples white	
Mwiciringiri	Mzee wa Nyama	
2023	2022	
v		
	v	v
	v	v
v		
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v	v	
v		
	v	v
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	v	v

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		v

Cucurbita maxima - pumpkin (under OSSS T&C)									
Name of cultivar		Mushomoro	Mushomoro	Kahurura	Kahurura	Gituru	Gituru	Green Variety	Green Variety
Village			Tangi tano		Tangi Tano		Tangi Tano		Tangi tano
Year		2022	2023	2022	2023	2022	2023	2022	2023
Characteristic	Note								
Plant: length of main stem									
very short	1								
short	3						√	√	
medium	5	√	√	√	√	√			√
long	7								
very long	9								
Leaf blade: size									
very small	1				√				
small	3		√	√				√	√
medium	5	√				√	√		
large	7								
very large	9								
Leaf blade: margin									
entire or very weakly incised	1	√	√					√	√
weakly incised	2			√	√				
moderately incised	3					√	√		
Petiole: length									
short	3			√	√		√	√	
medium	5	√				√			√
long	7		√						
Petiole: diameter (at base) -Leaf									
small	3			√	√			√	√
medium	5	√	√			√	√		
large	7								
Female flower: length of sepal									
short	3			√	√	√	√		√
medium	5								

large	7								
Male flower: length of sepal									
short	3			√					
medium	5				√	√	√		√
long	7	√	√						
Peduncle: length (flower)									
short	3			√	√		√		
medium	5	√				√			√
long	7		√						
Peduncle: diameter									
small	3			√	√				
medium	5					√	√		√
large	7	√	√						
Fruit: length									
very short	1								
short	3		√		√				
medium	5						√		√
long	7								
very long	9								
Fruit: diameter									
small	3				√				
medium	5		√				√		√
large	7								
very large	9								
Fruit: shape									
heart shaped	1								√
capped	2								
transverse medium elliptic	3								
transverse broad elliptic	4								
circular	5		√						
narrow elliptic	6								
medium elliptic	7				√		√		
rectangular	8								

trapezoid	9								
broad pear shaped	10								
narrow pear shaped	11								
Hubbard type	12								
tri-lobed	13								
Fruit: position of broadest part									
towards stem end	1								
at middle	2		√		√		√		
towards blossom end	3								√
Fruit: grooves									
absent	1								
present	9		√				√		√
Fruit: distance between grooves					√				
small	3								
medium	5		√				√		
large	7								
Fruit: depth of grooves									
shallow	3				√				√
medium	5		√				√		
deep	7								
Fruit: number of colours of skin									
one	1		√				√		√
two colour intensities (wit	2				√				
two colour hues	3								
more than two colour hue	4								
Fruit: main colour of skin									
white	1								
cream	2		√						
yellow	3								
orange	4								
red	5								
pink	6								
green	7								√

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Black	Black	Round Variety	Round Variety	kimande	kimande	Mixed variety
	Tangi Tano		Tangi Tano		Tangi Tano	Tangi Tano
2022	2023	2022	2023	2022	2023	2022
				√	√	
		√				
			√			
						√
√	√					
		√	√		√	√
√	√			√		
√	√	√	√			
						√
				√	√	
	√	√				
√			√	√		√
					√	
√		√				√
	√		√	√	√	
	√			√	√	
		√				

			✓			
		✓	✓	✓	✓	
✓						
	✓					
✓	✓	✓	✓			
				✓	✓	
✓	✓			✓	✓	
		✓	✓			
					✓	
	✓		✓			
	✓					
			✓		✓	
	✓		✓		✓	
	✓		✓			
			✓			
	✓				✓	

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			✓			
	✓					
	✓		✓		✓	
	✓					
			✓		✓	
	✓		✓			
					✓	
	✓		✓			
					✓	
	✓		✓			
					✓	
			✓		✓	
	✓					