

INFORMATION ON RELEASED CROP VARIETIES IN TANZANIA

Species: Maize (*Zea mays L.*)

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Katumani	Late 1950's	KARI - Katumani	<1500	Morogoro, Dodoma, Pwani, Kilimanjaro, Rukwa, Arusha, Tanga, Mtwara	3.0-3.5	-Plant height (cm): 90-160 -Leaf orientation: at 60° - 80° -Days to 50% tasseling: 40-52 -Tassel colour: mostly white -Days to 50% silking: 44-56 -Silk colour: white (98%), other (2%)	Suitable in areas with short rainfall
2.	H622	1968	EAC/KARI/Kenya Seed Co.	1200 - 1650	Pwani, Tanga, Morogoro	6.0-7.0	-Seed or grain: dent, large kernels -Duration to maturity: 5-7 months	Fairly tolerant to leaf blight and leaf rust but susceptible to grey leafspot.
3.	H511	1968	EAC/KARI/	1300 - 1700	Kilimanjaro, Arusha	4.0-5.0	-Duration to maturity: medium maturity (4-6 months) -Kernal colour: white, but bears purple kernels in some ears	Earlier in maturity
4.	H632	1968	Kenya Seed Co.	1200-1650	Kilimanjaro, Mbeya, Ruvuma, Rukwa, Arusha	6.0-7.0	Seed or grain: dent, large kernels Duration to maturity: 5-7	Fairly tolerant to leaf blight and leaf rust but susceptible to grey leaf spot

							months	
5.	H6302	1976	EAC	>1500	Mbeya, Ruvuma, Rukwa	8.0-8.5	Duration to maturity: early maturing variety (120 days)	Highly tolerant to northern leaf blight and rust
6.	UCA	1976	ARI-Ukiriguru	900-1500	Kilimanjaro, Ruvuma, Rukwa, Mwanza, Arusha	4.0-6.0	-Leaf orientation: droopy -Days to 50% tasseling: 80-95 -Tassel colour: present -Days to 50% silking: 86-100 -Silk colour: mostly white with purple Seed or grain: flourty to flinty Duration to maturity: 140 days	Suitable in drier areas
7.	Tuxpeno	1976	ARI - Ilonga	0 -900	Tanga, Mtwara	3.0-4.0	-Stem colour: purple -Leaf orientation: at an acute angle, some -Days to 50% tasseling: 58 -Tassel colour: purple mostly -Days to 50% silking: 67-70 -Silk colour: purple (80%)-white and other white with occasional red Seed or grain: dent, long kernel	Suitable in coastal and lowland areas

8.	8. H614	1977	EAC	>1500	Mbeya, Ruvuma, Rukwa,	7.0	Duration to maturity:180-190 days Seed or grain: semi flint	Very susceptible to maize streak virus.
9.	9. ICW	1977	ARI - Ilonga	0-900	Kilimanjaro, Morogoro, Arusha, Tanga, Mtwara	4.0-6.0	Leaf orientation: droopy -Days to 50% tasseling: 60 -Tassel colour: present -Days to 50% silking: 66-72 -Silk colour: mostly white with purple Seed or grain:predominantly flint with dent cap	Suitable in lowland areas
10.	Kilima St	1983	ARI - Ilonga	900 -1500	Kilimanjaro, Katumani, Mwanza, Morogoro, Arusha, Tanga, Mtwara	5.0-6.0	-Leaf orientation: 40° - 60° -Days to 50% tasseling: 70 -Tassel colour: yellow (83%), red (5%), purple (12%) -Days to 50% silking: 80 - Silk colour :(white with (91%), Salmon (9%) -Seed or grain:70% flint, 30% dent	Streak tolerant
11.	Staha	1983	ARI - Ilonga	0 -900	Kilimanjaro, Arusha, Morogoro, Tanga, Mtwara	4.0-5.0	-Plant height (cm): 170 -Leaf orientation: at angle 40° - 60° -Days to 50%	Streak tolerant

							tasseling:60-65 -Tassel colour (anthers): predominantly yellow and red anthers with a small proportion of purple. -Days to 50% silking:60-74 -Silk colour: 80% salmon, 20% white -Seed or Grain: flint 60%, dent 40%	
12.	Kito	1983	ARI -Ilonga	0 -1300	Kilimanjaro, Morogoro, Arusha, Tanga, Mtwara	2.0 – 3.0	-Plant height (cm): 60-135 -Leaf orientation: droop -Days to 50% tasseling: 45-47 -Tassel colour (anthers): 50% yellow, 40% red and 10% purple. -Days to 50% silking:52-56 -Silk colour: salmon 80%, white 20 % -Seed or Grain: flint	Suitable in drier areas
13.	TMV - 1	1987	ARI - Ilonga	<1500	Morogoro, Pwani, Tanga	4.0-4.0	-Plant height (cm):160-210 -Leaf orientation: slightly recurved -Days to 50% tasseling: 55-70	Streak and rust resistant

							-Tassel colour: Yellow (99%) others (1%) -Days to 50% silking: 65-80 -Silk colour: white (95%), other (5%) -Seed or grain: mostly flint	
14.	TMV - 2	1987	ARI - Uyole	>1500	Mbeya, Iringa,	7.5-8.0	-Plant height (cm): 180-225 -Leaf orientation: at 45-60° -Days to 50% tasseling: 95-100 days -Tassel colour: Mainly purple -Days to 50% silking: 110-115 - Silk colour: white 90%, Salmon 10% -Seed or grain: mostly flint	Resistant to <i>Turcicum</i> leaf blight
15.	Cholima 1	1992	Dakawa	0 -900	Morogoro, Pwani, Tanga	6.5	Duration of maturity: early maturing variety (120 days)	Tolerant to maize streak virus, leaf blight and leaf rust
16.	Cholima 3	1992	Dakawa	0 -900	Morogoro	6.5	Duration of maturity: early maturing variety (120 days)	Tolerant to maize streak virus, leaf blight and leaf rust
17.	CG4142	1993	Cargill Zimbabwe (PTY) Ltd	900- 1500	Morogoro	4.8	-Plant height: 225 -Days to 50% flowering: 65 days -Seed or Grain :dent	Ear rot, leaf blight and leaf rust resistant
18.	C6222	1994	Cargill Zimbabwe	900 - 1500	Morogoro	10.0-	-Leaf orientation:	Tolerant to ear rot, leaf

			(PTY) Ltd			15.0	Recurved -Days to 50% flowering: 72 days -Tassel colouration: purple -Days to 50% silking: 72 days Silk colour: yellow to purple -Seed or Grain :flint	blight(<i>Helminthosporium turcicum</i> Pass) and leaf rust (<i>Puccinia sorghi</i>)
19.	PAN 6195	1995	Pannar Seeds Co.Ltd	1000 - 1500	Mbeya, Iringa,	6.0	-Plant height: 258 cm -Leaf orientation: Semi-upright -Days to 50% flowering:78 -Days to 50% silking:84 -Seed or Grain: nearly flint	Tolerant to maize streak, intermediate resistant to ear rot and leaf blight
20.	PAN6549	1995	Pannar Seeds Co. Ltd	500 - 1500	Mbeya, Iringa, Ruvuma	6.0	-Plant height: medium -Leaf orientation: -Days to 50% flowering: 69-85 days -Days to 50% silking:84 -Seed or Grain: nearly flint	Tolerant to rust, maize streak, ear rot and leaf blight.
21.	PAN 6481	1995	Pannar Seeds Co. Ltd	1000- 1500	Morogoro, Iringa, Ruvuma, Dodoma	6.0	-Days to 50% flowering: 70-85 days -Seed or Grain: large and flat	Moderately tolerant to maize streak and leaf blight Tolerant to ear rot and rust
22.	PAN 695	1995	Pannar Seeds Co.Ltd	1000 -	Morogoro,	6.0	-Plant height: tall	Tolerant to ear rot, leaf

				1500	Iringa, Ruvuma, Dodoma		-Days to 50% flowering: 50-85 days -Seed or Grain:semi flint	blight and rust
23.	C5121	1997	Cargill - Zimbabwe	1000 - 1600	Morogoro, Iringa, Dodoma	10.0- 15.0	-Plant height (cm): medium -Leaf orientation: angled and curved -Days to 50% tasseling: 64 (at 1300 m.a.s.l.) -Days to 50% silking: 68 (at 1300 m.a.s.l.) -Seed or Grain: hard-dent	Resistant to blight (<i>Helminthosporium turcicum</i> Pass), leaf rust (<i>Puccinia sorghi</i>), ear rot
24.	C5051	1999	Cargill - Zimbabwe	1000 - 1600	Morogoro, Iringa, Dodoma	10.0- 15.0	-Plant height (cm): 240 -Leaf orientation: angled and curved -Days to 50% tasseling: 68 (at 1300 m.a.s.l.) Days to 50% silking: 72 (at 1300 m.a.s.l.) -Seed or Grain:semi-flint	Resistant to blight leaf (<i>Helminthosporium turcicum</i> Pass), leaf rust (<i>Puccinia sorghi</i>), ear rot
25.	PAN 6243	1999	Pannar Seed Co. Ltd	1000 - 1500	Morogoro, Iringa, Ruvuma, Dodoma	8.0	Days to 50% flowering: Medium (from 60 days) Days to 50% silking: medium (from 63 days) Leaf attitude: recurved	Tolerant to grey leaf spot,Northern Leaf Bright (NLB), rust and ear rot

							Plant height: medium Seed or grain: dent	
26.	CRN3631	1999	Monsanto Hybrid Seeds Co.	900 - 1500	Arusha, Kilimanjaro,	8.1	-Plant height: 205 cm -Days to 50% flowering: 72-85 days -Silk colour: white-anthocyanin often present -Seed or Grain: semi dent	Resistant to ear rot. Moderately tolerant to maize streak virus and grey leaf spot
27.	PHB30A1 5	1999	Pioneer Seed Co. Ltd	1000 - 1500	Morogoro, Iringa, Ruvuma, Dodoma	5.0 - 10.0	-Plant height: medium -Leaf orientation: floppy, dropping pale green -Days to 50% flowering: Medium (65-70 days) -Days to 50% silking: -Seed or Grain:semi-dent	Partial resistance to maize streak virus. Tolerant to grey leaf spot. Very resistant to leaf blight and ear rot
28.	H625	2000	Kenya Seed Co. Ltd	1500 - 2400	Iringa, Ruvuma, Morogoro, Mbeya, Rukwa	9.0 – 10.0	Duration to maturity: 6-8 months	Resistant to lodging, leaf rust, leaf blight, drought and grey leaf spot Prolific Good husk cover
29.	H513	2001	Kenya Seed Co. Ltd	900 - 1500	Arusha, Kilimanjaro	7.0 – 8.5	-It bears a total of 16 leaves with 6 above the ear. -Seed or Grain: semi –dent Duration to maturity: 120-150	It is fairly resistant to moisture stress

							days	
30.	Uh615	2001	ARI - Uyole	1200 - 1800	Arusha, Mbeya, Iringa, Ruvuma	6.0 – 8.0	-Plant height: 200 cm -Days to 50% silking:85-92 days -Silk colour: purple -Seed or Grain: semi-dent	Tolerant to grey leaf spot (GLS) and leaf blight
31.	Lishe - HI	2001	ARI - Selian	1000 - 1500	Arusha, Kilimanjaro, Manyara	4.0 – 7.0	-Days to 50% flowering: 70-75 days -Days to 50% silking:73-75 days -Plant height: 180-200 cm -Stem colour: green/purple -Tassel colouration: yellow/purple -Silk colour: white (90 %), others (10 %) -Seed or Grain: flint/dent - Duration to maturity: medium/late	Quality protein maize [Has 10 % protein like other maize varieties but its protein has twice level of essential amino acids (Lysine and tryptophane)] Tolerant to GLS and <i>E.turcicum</i> leaf blight, susceptible to MSV, good resistant to Diplodia, Fusarium cob rots and <i>Puccinia sorghi</i> rust
32.	Lishe –H2	2001	ARI -Selian	500-1600	Arusha, Manyara, Singida	4.0 - 7.0	-Days to 50% flowering: 67-75 days -Days to 50% silking:73-78 days -Plant height: 184-210 cm -Stem colour: green/purple -Tassel colouration:	Quality protein maize [Has 10 % protein like other maize varieties but its protein has twice level of essential amino acids (Lysine and tryptophane)] Very good resistant to Maize streak virus (MSV), good resistant to

							<ul style="list-style-type: none"> yellow/purple -Silk colour: white -Seed or Grain: flint/dent - Duration to maturity: medium/late 	Grey leaf spot (GLS), <i>Diplodia</i> , <i>Fusarium</i> cob rots, <i>E.turcicum</i> leaf blight and <i>Puccinia sorghi</i> rust
33.	Lishe – K1	2001	ARI-Selian	500-1600	Arusha, Manyara, Singida, Morogoro	4.0-6.0	<ul style="list-style-type: none"> -Days to 50% flowering: 66-73 days -Days to 50% silking: 70-75 days -Plant height: 180-200 cm -Stem colour: green/purple -Tassel colouration: yellow/purple -Silk colour: white -Seed or Grain: flint/dent - Duration to maturity: medium 	Quality protein maize [Has 10% protein like other maize varieties but its protein has twice level of essential amino acids (lysine and tryptophane)] Susceptible and moderate resistant to Maize Streak and Gley Leaf Spot respectively, good resistant to <i>Diplodia</i> , <i>Fusarium</i> cob rots, <i>E.turcicum</i> leaf blight and <i>Puccinia sorghi</i> rust
34.	Situka-M1	2001	AR-Selian	1000-1500	Morogoro, Arusha, Manyara, Singida	3.0-5.0	<ul style="list-style-type: none"> -Plant height: 180 - 195 cm -Leaf orientation: 45-69° -Days to 50% flowering: 70-75 days -Tassel colouration: purple -Days to 50% silking: 78 days -Seed or Grain: flint/dent 	Tolerant to maize streak and Grey leaf spot. Resistant to <i>Diplodia</i> , <i>Fusarium</i> leaf blight and <i>Puccinia sorghi</i>
35.	Situka 2	2001	AR-Selian	500-1600	Morogoro,	4.0-6.0	<ul style="list-style-type: none"> -Plant height: 184- 	Tolerant to maize streak

					Arusha, Manyara, Singida		210 cm -Leaf orientation:45 -60 ⁰ -Days to 50% flowering: 45-55 days -Tassel colouration: purple -Days to 50% silking: 78 days -Silk colour: white/purple -Seed or Grain : flint	and grey leaf spot Resistant to <i>Diplodia</i> , <i>Fusarium</i> , leaf bright and <i>Puccinia sorghi</i>
36.	PAN 15	2001	Pannar Seeds Co. Ltd	500-1500	Morogoro, Arusha, Manyara, Singida	7.0	-Leaf orientation: slightly recurved -Days to 50% flowering: 70-87 days (late) -Days to 50% silking: 72-89 days (medium) -Seed or Grain : flint-like	Tolerant to maize streak virus, grey leaf spot , northern leaf blight, Rust, ear rot
37.	PAN 77	2001	Pannar Seeds Co. Ltd	>1500	Rukwa, Iringa, Mbeya, Ruvuma, Arusha, Kilimanjaro	7.0	-Leaf orientation: slightly recurved -Days to 50% flowering: 72-89 days (medium) -Days to 50% silking:74-91 days -Seed or Grain: flint	Tolerant to maize streak virus , grey leaf spot, northern leaf blight , Rust, ear rot
38.	PAN 691	2001	Pannar Seeds Co. Ltd	>1500	Rukwa, Iringa, Mbeya, Ruvuma, Arusha, Kilimanjaro	7.0	Plant height: 320 cm -Leaf orientation: erect -Days to 50%	Tolerant to maize streak virus, grey leaf spot, northern leaf blight, Rust, ear rot

							flowering: 102 days -Days to 50% silking:103 days -Seed or GrainSeed: flint	
39.	Pwani H04	2001	Kenya Seed Co	0-800	Pwani, Morogoro, Lindi, Mtwara	7.0	-Stem bears 17 leaves of which 10 are above the ear. - It has an open tassels with an.average of 19 primary branches -Seed or Grain : dent to semi-dent -Duration to maturity: 3-5 months	Well adapted to hot, humid low lands, Partially resistant to maize streak virus
40.	CRN 3891	2001	Mansanto Hybrid Seeds Co.	900-1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	8.0-9.0	-Plant height: 270 cm -Days to 50% flowering: 69 days -Silk colour: white-anthocyanin often present -Seed or Grain: dent	Moderately tolerant to maize streak virus
41.	DK 8071	2001	Monsonito Hybrid Seeds Co.	1000-1600	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	8.0-9.0	-Plant height: 247.0 cm -Leaf orientation: recurved -Days to 50% flowering: 71 days at 130 m a.s.l -Tassel colouration: pale green -Days to 50% silking: 73 days at 1300 m.a.s.l	Tolerant to grey leaf spot and rust

							-Silk colour: whitish -Seed or Grain: semi-flint	
42.	PHB30H8 3	2001	Pioneer Seed Co.	800-1800	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	7.0- 10.0	-Plant height: 235.0 cm (tall) -Leaf orientation: floopy -Days to 50% flowering: 76 days -Tassel colouration: strong -Days to 50% silking: 76 days -Silk colour: pink -Seed or Grain: medium flint	Medium resistant to leaf blight and rust, ear rot and grey leaf spot resistant
43.	SC 627	2001	Seed Co. Ltd	500-1400	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	5.0- 10.0	-Plant height: 300 cm -Leaf orientation: recurved -Days to 50% flowering: 74 days -Tassel colouration: clear -Days to 50% silking: 72 days -Silk colour: red -Seed or Grain :semi dent	Excellent resistance to grey leaf spot. Moderately resistant to rust and resistant to leaf blight. Good stress tolerance, lodging resistance and prolificacy. Has very good adaptability Rust resistance: average
44.	PHB30G9 7	2001	Pioneer Seed Co.	800-1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	7.0- 10.0	-Plant height: 225.0 cm -Leaf orientation: floopy -Days to 50% flowering: 77 days	Tolerant to grey leaf spot and ear rot

							-Tassel colouration:strong -Days to 50% silking:78 days -Silk colour: pink -Seed or Grain : flint	
45.	DH01	2002	Kenya Seed Co.	90-120	Pwani, Tanga, Morogoro, Lindi, Mtwara	2.0-5.0	-Silk colour: mixture (light purple and cream) -Seed or Grain :semi-dent -Duration of maturity: early maturity (90-120 days)	Drought resistant and good husk cover
46.	H628	2002	Kenya Seed Co.	150-180	Pwani, Tanga, Morogoro, Lindi, Mtwara	9.0-12.0	-Tassel colouration: purple -Silk colour: pink -Ear size: big -Seed or Grain: semi-dent	Lodging resistant
47.	DK8051	2002	Monsanto Hybrid Seed Co.	120-140	Pwani, Tanga, Morogoro, Lindi, Mtwara	6.0-9.0	-Plant height: 239.0 cm -Leaf orientation: recurved -Days to 50% flowering: 71 days at 1300 a.s.l -Tassel colouration: green -Days to 50% silking:73 days at 1300 m a.s.l -Silk colour: dirty white	Excellent tolerance to grey leaf spot

48.	DK8031	2002	Monsanto Hybrid Seed Co.	100-110	Pwani, Tanga, Morogoro, Lindi na Mtwara	5.0-8.0	-Plant height: 249.0 cm -Leaf orientation: recurved -Days to 50% flowering: 64 days at 1300 a.s.l -Tassel colouration: purple -Days to 50% silking: 66 days at 1300 a.s.l -Silk colour: brownish -Seed or Grain: hard dent	Good tolerance to grey leaf spot.
49.	Longe 4	2003	FICA SEED Ltd	900 -1500	Kilimanjaro, Arusha, Manyara	6.38	-Days to flowering: 60±2 -Plant height : 187±14.1 -Kernael arrangement: regular - 1000 kernel weight (gms): 347 -Seed or grain: semi-dent	Have acceptable levels of resistance to foliar diseases and drought tolerant Drought tolerant and Maize Streak resistant
50.	Longe 2H	2003	FICA SEED Ltd	900 - 1500	Kilimanjaro, Arusha, Manyara		-Days to 50 % tasseling: 65 -Days to 50 % silking: 68 Plant height: 220-240 cm -Kernel row arrangement: regular	

							-Number of row per cob: 14 -Seed or Grain : semi-flint	
51.	DH 04	2003	Kenya Seed Co. Ltd	500-1200	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	8.0	-Plant height: 280±10 cm -Leaf orientation: slightly recurved -Days to 50% flowering: 72 days -Tassel colouration: light purple (weak) -Days to 50% silking:76 days -Silk colour: cream to pink -Seed or Grain :semi-flint texture:	Very good resistant to Leaf blight and Leaf Rust
52.	DH 03	2003	Kenya Seed Co. Ltd	200-1000	Morogoro, Tanga, Iringa	Above 6.0	-Plant height: 240±10 cm -Leaf orientation: slightly recurved -Days to 50% flowering:67 days -Tassel colouration: medium (trace purple) -Days to 50% silking:70 days -Seed or Grain : dent	Resistant to Cob rots
53.	KS H 519	2003	Kenya Seed Co. Ltd	1400-1700	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	Above 8	-Plant height: 240±10 cm -Leaf orientation: recurved -Days to 50% flowering:80 days	Good resistant to Leaf blight and Leaf Rust

							-Tassel colouration: cream to light purple -Days to 50% silking:84 days -Seed or Grain : semi-dent	
54.	SC 407	2003	SEED CO. Ltd	500-1400	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	1-8	-Days to 50% flowering: medium -Tassel colouration: medium -Days to 50% silking: 66 -Silk colour: red (young), light brown (mature) -Seed or Grain Seed: flint-like -Days to maturity:132 Seed or Grain : semi-flint	Good stress tolerance and fairly good tolerance to Grey leaf Spot (GLS). Has good tolerance to Maize Streak Virus (MSV)
55.	SC 403	2003	SEED CO. Ltd	500-1400	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	1-6	-Plant height: medium -Days to 50% flowering: 64 -Tassel colouration: weak -Days to 50% silking: 64 -Silk colour: pink -Seed or Grain: intermediate	Very good adaptability and stress tolerance, good lodging resistant Very good resistant to MSV, good resistant to cob rots and leaf blight, and moderate rust rust resistance
56.	SC 513	2003	SEED CO. Ltd	500-1400	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	4-9	-Plant height: 268 cm -Leaf orientation: slightly recurved	Moderate resistant to Cob rots and good resistant to Leaf blight (<i>Helminthosporium</i>)

							<ul style="list-style-type: none"> -Days to 50% flowering: 66 days -Tassel colouration: strong colouration -Days to 50% silking: 66 days -Silk colour: red 	<i>turcicum</i>) and Rust resistance Excellent tolerant to grey leaf spot Prone to <i>Phaeosphaeria</i> leaf spot Good adaptability and stress tolerance
57.	H 515	2003	Kenya Seed Co. Ltd	1200-1600	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	4-5	<ul style="list-style-type: none"> -Stem colour: green with light shades of purples - Leaf colour: dark green with hairy sheaths - Cob shape: cylindrical -Days to 50 % tasseling: 78 -Days to 50 % silking: 85 - Grain size: large -Leaf orientation: slightly recurved -Seed or Grain: semi-flint -Plant height: 270 cm 	
58.	SC 713	2003	SEED CO. Ltd	500-1400	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	6-13	<ul style="list-style-type: none"> Plant height: 290 cm -Days to 50% flowering: 70 days -Anther colour: cream -Days to 50% silking: 72days -Silk colour: pink (young) light brown 	It has excellent tolerance to Maize Streak Virus (MSV) and good tolerance to Gley Leaf Spot (GLS)

							(mature) -Glume colour: pale green -Days to maturity:151	
59.	PAN 23	2003	Pannar (Pty) Ltd	850-1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	4-7	-Plant height: 276 cm (variable) -Leaf orientation: erect 30-45 ⁰ -Days to 50% flowering:74 days -Tassel colouration:very purple -Days to 50% silking:76 days -Silk colour: cream to pink -Seed or Grain : dentlike	Good resistant to Cob rots, Leaf blight (<i>Helminthosporium turcicum</i>) and Leaf Rust
60.	PAN 33	2003	Pannar (Pty) Ltd	850 - 1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	4-7	-Plant height: 300 cm -Leaf orientation: slightly recurved -Days to 50% flowering:83 days -Days to 50% silking:83 days -Silk colour: white -Seed or Grain : flint	Good resistant to <i>Maize Streak Virus</i> , Cob rots, Leaf blight (<i>Helminthosporium turcicum</i>) and Leaf rust
61.	PAN 63	2003	Pannar (Pty) Ltd	850 - 1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	5-8	-Plant height: 300 cm -Leaf orientation: slightly recurved -Days to 50% flowering:84 days	Good resistant to <i>Maize Streak Virus</i> , Cob rots, Leaf blight (<i>Helminthosporium turcicum</i>) and Leaf rust

							-Days to 50% silking: 84 days -Seed or Grain : (flint and dent)	
62.	UH615	2003	ARI Uyole	1200 - 1800	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	8-9	Plant height: 200 cm -Tassel colouration: purple -Days to 50% silking: 85-92 days -Silk colour: cream to pink -Seed or Grain : semi-flint	Good level of tolerance to Grey Leaf Spot Lodging resistance
63.	PAN 4 M-17	2004	Pannar (Pty) Ltd	0- 1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	4-6	-Plant height: 245 cm (variable) -Leaf orientation: erect 35-45 ⁰ -Days to 50% flowering: 66 days -Tassel colouration: absent to very pale -Days to 50% silking: 65 days -Silk colour: cream to pink (variable ratio) -Seed or Grain : intermediate to flinty	Good resistant to Cob rots, Leaf blight (<i>Helminthosporium turcicum</i>), and Leaf Rust Good adaptability, stress tolerance, lodging resistance, and prolificacy
64.	PAN 4M-19	2004	Pannar (Pty) Ltd	0-1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	4-7	-Plant height: 248 cm (variable) -Leaf orientation: erect 30-50 ⁰ -Days to 50% flowering: 63 days -Tassel colouration:	Good resistant to Cob rots, Leaf blight (<i>Helminthosporium turcicum</i>), and Leaf Rust

							cream to faint pink -Days to 50% silking:65 days -Silk colour: white to pink (variable) -Seed or Grain : intermediate to almost round (flint)	
65.	UH 6303	2004	ARI-Uyole	1200-1800	Iringa, Mbeya, Ruvuma, Rukwa	9-10	-Days to 50% flowering: 92 days -Tassel colouration: purple -Silk colour: light pink -Seed or Grain :semi-flint	Good resistant to Leaf blight (<i>Helminthosporium turcicum</i>), and Grey Leaf Spot
66.	Longe 6H	2004	Finca Seed Ltd	900 - 1500	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	8 -9	-Leaf colour: dark green -Days to 50% flowering: 66 days -Days to 50% silking: 71 days -Anther colour: cream -Silk colour: purple -Seed or Grain :semi-dent -Plant height: 203± cm	Drought tolerant Good poundability Early maturity
67.	TAN H611	2006	Tanseed International Ltd	Low to medium	Morogoro, Pwani, Tanga, Lindi, Mtwara, Dodoma, Singida, Tabora	4-7	-Days to 50% tasseling: 54-70 days -Tassel anthocyanin colouration: absent to very pale -Days to 50% silking: 54-70 days	Good resistance to Maize streak virus, Turcicum leaf blight, Cob rots, Grey leaf spot and Common rust Has twice level of essential amino acids: Lysine and Tryptophane

							-Seed or grain: semi-flinty -Plant height: 1.7- 2.8m (variable)	than normal maize
68.	TAN 250	2006	Tanseed International Ltd	Low to medium	Morogoro, Pwani, Tanga, Lindi, Mtwara, Dodoma, Singida, Tabora	3-5	-Leaf orientation: medium angle -Days to 50% tasseling: 58- 65 days -Glume anthocyanin colouration: very weak -Days to 50% silking: 62 – 69 days -Silk anthocyanin colouration: present Seed or grain : flinty Plant height: 1.5-2.5 m (variable)	Excellent resistance to Maize streak virus and Grey leaf spot, good resistance to Turcicum leaf blight, Cob rot and Common rust
69.	TAN 254	2006	Tanseed International Ltd	Low to medium	Morogoro, Pwani, Tanga, Lindi, Mtwara, Dodoma, Singida, Tabora	4-6	-Leaf orientation: angle moderately small -Days to 50% tasseling: 57 days -Glume anthocyanin colouration: very weak -Days to 50% silking: 71 days -Silk anthocyanin colouration: weak -Seed or grain: flinty	Good resistance to Maize streak virus, Turcicum leaf blight, Cob rots, Grey leaf spot and Common rust

							-Plant height: 2.5-2.8 m (variable)	
70.	VUMILI A K1	2007	ARI Selian	Medium	Arusha, Kilimanjaro, Manyara,Singida , Tanga	3.6 - 5.2	Leaf orientation: slight zigzag -Days to 50% tasseling: 66 days -Glume anthocyanin colouration: strong -Days to 50% silking: 66 days -Silk anthocyanin colouration: red -Seed or grain: flint like -Plant height: 1.69 m	Very good resistant to Maize Streak Virus
71.	VUMILI A H1	2007	ARI Selian	Medium	Arusha Kilimanjaro, Manyara,Singida , Tanga	6.0 – 7.0	Leaf orientation: slight zigzag -Days to 50% tasseling: 66 days -Glume anthocyanin colouration: medium -Days to 50% silking: 66 days -Silk anthocyanin colouration: present -Seed or grain: flint like -Plant height: 1.69 m	Good resistant to Maize Sreak Virus, cob rots, leaf blight and rust

72.	WH 505	2007	Western Seed Co. Ltd	1000-1800	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	5.2 – 7.2	-Leaf orientation: slightly recurved -Days to 50% tasseling:75-80 days -Glume anthocyanin colouration: strong -Days to 50% silking: 80-90 days -Silk anthocyanin colouration: pink -Seed or grain: dent-like -Plant height: 2.15- 2.30 -Maturity 135 -150 days	Tolerant to Maize Streak Virus, Leaf blight, and rust
73.	WH 502	2007	Western Seed Co. Ltd	1000-1800	Iringa, Mbeya, Kilimanjaro, Arusha, Ruvuma, Manyara	5.2 – 6.9	-Leaf orientation: recurved -Days to 50% tasseling:75-80 days -Glume anthocyanin colouration: medium -Days to 50% silking: 80-90 days -Silk anthocyanin colouration: pink -Seed or grain: dent -Plant height: 2.15 - 2.30 -Maturity 135-165 days	Tolerant to Maize Streak Virus, Leaf blight, and rust
74.	WH 403	2007	Western Seed Co. Ltd	1000-1800	Iringa, Mbeya,	4.5 –	-Leaf orientation:	Tolerant to Maize Streak

					Kilimanjaro, Arusha, Ruvuma, Manyara	6.0	recurved -Days to 50% tasseling: 70-75 days -Glume anthocyanin colouration: medium -Days to 50% silking: 80-90 days -Silk anthocyanin colouration: pink -Seed or grain: dent -Plant height: 2.20- 2.35 -Maturity 135 -165 days	Virus, Leaf blight, and rust
75.	Bora	2008	ARI Ilonga	0-1000	Morogoro, Tanga,Pwani, Mtwara, Lindi	4.5	Maturity 105 days -Best for the eastern zone and other low land maize growing areas -Days to 50% tasseling:51-52 days -Plant height 180 – 210 cm	Tolerant to maize streak virus, leaf blight and leaf rust
76.	UHS 5350	2009	ARI-Uyole	1200-1600		8-9t/ha	-Maturity 150 days	-Tolerant to Maize Streak Virus (MSV) - Tolerance to Grey Leaf Spot (GLS)
77.	UHS 5210	2009	ARI-Uyole	1200-1600		9- 10t/ha	Maturity 140 days	-Tolerant to Maize Streak Virus (MSV) - Tolerance to Grey Leaf Spot (GLS)

78.	SELIAN H208	2009	ARI-Selian	500-1500	Arusha, Morogoro, Mwanza, Manyara, Tabora, Kilimanjaro			- Resistant to Grey Leaf Spot (GLS)
79.	SELIAN H308	2009	ARI-Selian	500-1500	Arusha, Morogoro, Mwanza, Manyara, Tabora, Kilimanjaro			- Resistant to Grey Leaf Spot (GLS)
80.	TAN H600	2009	Tanseed International	0-1500	Arusha, Kilimanjaro, Morogoro, Mwanza, Tanga, Singida, Tabora	7t/h	Medium to late maturity	Quality Protein Maize (QPM)
81.	TAN 222	2009	Tanseed International	0-1500	Arusha, Kilimanjaro, Morogoro, Mwanza, Tanga, Singida, Tabora	6/h	Medium to late maturity	Quality Protein Maize (QPM)
82.	P2859W	2010	Pioneer Hybrid Seeds Ltd	600 -1600	Medium altitude	7t/ha	Maturity 125 days	
83.	TZH 526	2011	Suba Agro Trading and Engineering Company (SATEC)	900 -1500	Medium altitude	9-11 t/ha	Maturity 120 days	Resistant to Gray Leaf Spots, Maize streak and turcicum blight
84.	TZH 538	2011	SATEC	900 -1500	Medium altitude	9-14 t/ha	Maturity 130 days	Resistant to Gray Leaf Spots, Maize streak and turcicum blight
85.	TZH 417	2011	SATEC	800 -1500	Medium altitude	6-9 t/ha	Maturity 100 days	Resistant to Gray Leaf Spots, Maize streak and turcicum blight
86.	TZM 523	2011	SATEC	800 -1500	Medium altitude	6-8 t/ha	Maturity 100 days	Resistant to Gray Leaf Spots, Maize streak and

								turcicum blight
87.	30G19	2011	Pioneer Oversees Corporation	1200 -1800	Medium altitude	7-11 t/ha	Maturity 150 days	Resistant to Gray Leaf Spots, Maize streak and turcicum blight
88.	DKC90-89	2011	Monsanto Tanzania Ltd	900 -1500	Medium altitude	4-6 t/ha	Maturity 150-180 days	
89.	MERU H501	2011	Meru Agro-Tours & Consultants Co. Ltd	50 0-1200	Medium altitude	4-8 t/ha	Maturity 118 days	Resistant to Maize Streak and Gray Leaf Spot
90.	MERU H500	2011	Meru Agro-Tours & Consultas Co. Ltd	800 -1400	Medium altitude	10 t/ha	Maturity 128 days	Resistant to Maize Streak and Gray Leaf Spot
91.	MERU H600	2011	Meru Agro-Tours & Consultas Co. Ltd	1000 -1600	Medium altitude	10 t/ha	Maturity 129 days	Resistant to Maize Streak and Gray Leaf Spot
92.	NATA H 104	2012	Aminata Quality Seed and Consultancy Ltd	500 -1700	Medium altitude	7 – 9t/ha	Maturity 120 days	-Resistant to Leaf rust, Leaf blight and Gray Leaf Spot -Good poundability
93.	NATA H 105	2012	Aminata Quality Seed and Consultancy Ltd	500 - 1700	Medium altitude	7 – 9t/ha	Maturity 120 days	-Resistant to Leaf rust, Leaf blight and Gray Leaf Spot
94.	PAN 4M-21	2012	Pannar seed Company (T) Ltd	400 - 1200	Medium altitude	7.5t/ha	Maturity 125 days	-Resistant to Leaf rust, Maize streak and Gray Leaf Spot - Resistant to lodging - Tolerant to drought
95.	PAN 5M-35	2012	Pannar seed Company (T) Ltd	600 - 1200	Medium altitude	8.5t/ha	Maturity 130 days	-Resistant to Leaf rust, Maize streak and Gray Leaf Spot - Resistant to lodging - Tolerant to drought
96.	PAN 3M-01	2012	Pannar seed Company (T) Ltd	400 - 1200	Medium altitude	6.5t/ha	Maturity 115 days	-Resistant to Leaf rust, Maize streak and Gray

								Leaf Spot - Resistant to lodging - Tolerant to drought - good poundability
97.	KH 600-15A	2012	East Africa Seed (T) Ltd	2000 - 3000	Medium altitude	8 - 10t/ha	Maturity 115 days	-Resistant to Leaf rust, Maize streak and Gray Leaf Spot - Resistant to lodging - Tolerant to drought - Good poundability - Ability to produce two cobs/plant
98.	ZMS 402	2012	Bajuta International (T) Ltd	500 - 1700	Medium altitude	5 - 7t/ha	Maturity 100 -110 days	-Resistant to Leaf rust, Maize streak and Gray Leaf Sppot - Resistant to lodging - Tolerant to drought - Good poundability
99.	ZMS 606	2012	Bajuta International (T) Ltd	500 - 1700	Medium altitude	8 - 10t/ha	Maturity 115 -125 days	-Resistant to Leaf rust, Maize streak, Gray Leaf Sppot and Cob rot - Resistant to lodging - Tolerant to drought - Good poundability
100.	WE2112	2013	Tanzania Commission for Science and Technology (COSTECH)	0 - 1500	Medium altitude	4.7t/ha and 8t/ha with reliable rainfall	Maturity 110-120 days	-Tolerant to drought -Tolerant to lodging
101.	WE2113	2013	Tanzania Commission for Science and	0 - 1500	Medium altitude	4.8t/ha and	Maturity 110- 120 days	-Tolerant to drought -Tolerant to lodging

			Technology (COSTECH)			8t/ha with reliable rainfall		-Tolerant to Maize streak and Leaf rust diseases
102.	WE2109	2013	Tanzania Commission for Science and Technology (COSTECH)	0 - 1500	Medium altitude	4.8t/ha and 8t/ha with reliable rainfall	Maturity 110-120 days	-Tolerant to drought -Tolerant to lodging -Tolerant to Maize streak and Leaf rust diseases
103.	K6Q	2013	Aminata Quality Seed and Consultancy Ltd	0 - 1600	Medium altitude	5 – 7t/ha	Maturity 100 -110 days	- Resistant to Leaf rust, Leaf blight, Gray Leaf spot - Good poundability - It has high content of amino acid
104.	MERU HB515	2013	Meru Agro Tours & Consultant Co. Ltd	800 - 1200	Medium altitude	11t/ha	Maturity 110-120 days	-Resistant to Leaf rust, Maize streak, Gray Leaf spot - Resistant to drought
105.	P3812W	2013	Pioneer Overseas Corporation	600 - 1700	Low to Medium Altitude	5.4t/ha	Maturity 110 -120 days	-Resistant to Leaf rust, Gray Leaf spot
106.	MAMSH 913	2013	Multi-Agrotrading Main Supplier	900 - 1500	Medium altitude	5.4t/ha	Maturity 120 days	-Resistant to Leaf rust, Maize streak diseases -Tolerant to drought -Good poundability
107.	SC 719	2014	SeedCo Tanzania Ltd	800 - 1500	Medium altitude	4.5 – 5		Maturity: 145 – 152 days -Tolerance to GLS, MSV and Turicum blight
108.	KH 500-43A	2014	East Africa Seed (T) Ltd	600 - 1500	Medium altitude	5-7.0		Maturity: 100 days Tolerance to GLS, leaf rust and maize streak diseases -good poundability
109.	CP 808	2014	Chareon Pokphand	400 - 800	Low to Medium	5.4		Maturity: 120 days

			Produce (T) Ltd		Altitude			-Higher Carotenoid content -Yellow Kernel coulor (28.41 β ug/g) -special for animal feed
110.	CP 201	2014	Chareon Pokphand Produce (T) Ltd	400 - 800	Low to Medium Altitude	5.4		Maturity: 105 days -Higher Carotenoid content (23.99 β ug/g) -Yellow Kernel coulor -special for animal feed
111.	BSI 1	2014	Chareon Pokphand Produce (T) Ltd	900 - 1900	Medium to High Altitude	6.7		Maturity: 103 days -Higher Carotenoid content -Yellow Kernel coulor -special for animal feed
112.	UHS 401	2014	ARI-Uyole	500 - 1500	Medium Altitude	5.35		Maturity: 91 days at medium altitude and 158 days at high altitude level Tolerant to Maize Streak Virus (MSV) - Tolerance to Grey Leaf Spot (GLS).
113.	WE 3117	2014	ARI-Ilonga	0 - 1500	Low to Medium Altitude	6.7		Maturity: 120 – 130 days Resistant to Leaf rust, Leaf blight and Maize streak virus diseases
114.	WE 3102	2014	ARI-Ilonga	0 - 1500	Low to Medium Altitude	7.2		Maturity: 120 – 140 days Resistant to Leaf rust, Leaf blight and Maize streak virus diseases
115.	WE3113	2014	ARI-Ilonga	0 - 1500	Low to Medium Altitude	7.1		Maturity: 125 – 130 days Resistant to Leaf rust, Leaf blight and Maize streak virus diseases
116.	MERU HB 507	2014	Meru Agro Tours & Consultancy Ltd	800 - 1200	Medium altitude	7.2		Maturity: 100 – 123 days Resistant to Leaf rust, Maize streak, Gray Leaf

								spot diseases - Resistant to drought -Good poundability
117.	MERU HB 509	2014	Meru Agro Tours & Consultancy Ltd	800 - 1200	Medium Altitude	6.4		Maturity: 95 – 100 days Resistant to Leaf rust, Maize streak, Gray Leaf spot diseases - Resistant to drought -Good poundability
118.	MERU HB 621	2014	Meru Agro Tours & Consultancy Ltd	800 - 1200	Medium altitude	7.2		Maturity: 95 – 100 dayResistant to Leaf rust, Maize streak, Gray Leaf spot diseases - Resistant to drought -Good poundability
119.	MAMSH 591	2014	Multi-Agro Trading Main Supplier	900 - 1500	Medium altitude	7.8		Maturity: 110 days -Resistant to Leaf rust, Grey leaf spot and Maize streak virus diseases -Good poundability
120.	SC 529	2014	SeedCo Tanzania Ltd	400 -1600	Low to Medium Altitude	6.8		Maturity: 110 - 144 days -Resistant to Leaf rust, Grey leaf spot and Maize streak virus Diseases
121.	SC 533	2014	SeedCo Tanzania Ltd	400 -1600	Low to Medium Altitude	6.4		Maturity: 121 days -Resistant to Leaf rust, Grey leaf spot, and Maize streak virus diseases
122.	SC 719	2014	SeedCo Tanzania Ltd	800-1500	Low to Medium Altitude	7.2 – 10		Maturity: 145 - 152 days -Resistant to Leaf rust, Grey leaf spot and cob rot diseases -good for animal feed
123.	Lubango	2014	IFFA Seed Company	900 - 1500	Medium Altitude	9.0-		Maturity: 110 days

			Ltd			12.0		-Resistant to Leaf rust, Grey leaf spot, Maize streak virus -Good poundability
124.	Selian H215	2016	ARI Selian	800 - 1200	Medium altitude	5		Tolerant to Grey leaf spot
125.	WE4106	2016	ARI Ilonga	0 - 1500	Low to Medium Altitude	6.8		Tolerant to Grey leaf spot, leaf rust & Maize streak virus. Good poundability Tolerant to drought
126.	WE4102	2016	ARI Ilonga	0 - 1500	Low to Medium Altitude	6.7		Tolerant to Grey leaf spot, leaf rust & Maize streak virus. Good poundability Tolerant to drought
127.	WE4110	2016	ARI Ilonga	0 - 1500	Low to Medium Altitude	6.6		Tolerant to Grey leaf spot, leaf rust & Maize streak virus. Good poundability Tolerant to drought
128.	WE4114	2016	ARI Ilonga	0 - 1500	Low to Medium Altitude	5.9		Tolerant to Grey leaf spot, leaf rust & Maize streak virus. Good poundability Tolerant to drought
129.	WE4115	2016	ARI Ilonga	0 - 1500	Low to Medium Altitude	6.4		Tolerant to Grey leaf spot, leaf rust & Maize streak virus. Good poundability Tolerant to drought
130.	WE4112	2016	ARI Ilonga	0 - 1500	Low to Medium Altitude	6.5		Tolerant to Grey leaf spot, leaf rust & Maize streak virus. Good poundability Tolerant to drought
131.	T104	2016	ARI Tumbi	600- 1500	Medium altitude	4.5		High yielding, Tolerant

								to GLS
132.	T105	2016	ARI Tumbi	600- 1500	Medium Altitude	5.4		
133.	NATA H401	2016	Aminata Quality Seeds & Consultancy Ltd	400- 1500	Low to Medium Altitude	7		Tolerant to Grey leaf spot, leaf rust & leaf blight.
134.	NATA K 8	2016	Aminata Quality Seeds & Consultancy Ltd	0- 1600	Low to Medium Altitude	4.9		Tolerant to Grey leaf spot, leaf rust, Maize streak virus & leaf blight.
135.	Krishna Hybrid-1	2016	Krishna Seed Company Ltd	600-1200	Medium Altitude	6.9		Tolerant to Grey leaf spot and Maize streak virus
136.	Krishna Hybrid-2	2016	Krishna Seed Company Ltd	600-1200	Medium Altitude	6.9		Tolerant to Grey leaf spot and Maize streak virus
137.	MERU LISHE 503	2016	Meru Agro- Tours & Consultancy Co. Ltd	800-1200	Medium Altitude	4.3		Tolerant to Grey leaf spot and Maize streak virus
138.	MERU LISHE 511	2016	Meru Agro- Tours & Consultancy Co. Ltd	800-1200	Medium Altitude	5.2		Tolerant to Grey leaf spot and Maize streak virus
139.	Kaspidi hybrid	2016	IFFA Seed Company Ltd	600-1200	Medium Altitude	6.1		Tolerant to Grey leaf spot and Maize streak virus
140.	Kisongo Hybrid	2016	IFFA Seed Company Ltd	600-1200	Medium Altitude	6.8		Tolerant to Grey leaf spot and Maize streak virus
141.	SY 514	2017	Syngenta Tanzania td	800 - 1900	Medium to High Altitude	9		High yielding variety, good GLS, MSV and ear rot tolerance
142.	SY 624	2017	Syngenta Tanzania td	800 - 1900	Medium to High Altitude	9		High yielding variety, good GLS, MSV and ear rot tolerance
143.	SY 634	2017	Syngenta Tanzania td	800 - 1900	Medium to High	9		High yielding variety,

					Altitude			good GLS, MSV and ear rot tolerance
144.	AGRISEED H351	2017	AGRISEED TECHNOLOGIES	200 - 1700	Low to Medium potential areas	7		High grain yield, tolerant to GLS, leaf blight rust and maize streak, flint character
145.	AGRISEED H352	2017	AGRISEED TECHNOLOGIES	200 - 1700	Low to Medium potential areas	6.5		High grain yield, tolerant to GLS, leaf blight rust and maize streak, flint character
146.	HPH 1322	2017	MATC	800 - 1200	Medium Altitude	6		Vitamin a level of 9.3 microgram/g, carotene colour intensity score 3.2, High yielding under optimal condition
147.	HPH 1317	2017	MATC	800 - 1200	Medium Altitude	6		Vitamin a level of 9.3 microgram/g, carotene colour intensity score 3.2, High yielding under optimal condition
148.	MAMSH 457	2017	MAMSH	900 - 1500	Medium Altitude	7		High yielding variety, good GLS, MSV and ear rot tolerance, flint
149.	MAMSH 458	2017	MAMSH	900 - 1500	Medium Altitude	6.5		High yielding variety, good GLS, MSV and ear rot tolerance, flint
150.	TH 617	2017	TROPICAL SEED (EA) Ltd.	800 - 1500	Medium Altitude	6.0		High yielding and drought tolerance
151.	TH 619	2017	TROPICAL SEED (EA) Ltd.	800 - 1500	Medium Altitude	6.5		High yielding and drought tolerance
152.	TH 501	2018	ARI TUMBI	800 -1500	Western zone and Lake Zone	6.5		High yielding variety
153.	SC 419	2018	SEEDCO TANZANIA LTD	100 - 1000	Low to Medium potential areas	6.0 7.0		High yielding, early mturing, drought tolerance
154.	DK777	2018	MONSANTO TZ LTD	500 - 1900	Medium to High Altitude	7		High yielding

155.	WE 5135	2019	TARI Ilonga	0 -1500	Low to mid altitude up to 1500 masl.	7.1		High yielding, Tolerant to MLND and drought
156.	WE 5141	2019	TARI Ilonga	0 - 1500	Low to Mid altitude up to 1500 masl.	6.3		High yielding, Tolerant to MLND and drought
157.	WE 7133	2019	TARI Ilonga	0 - 1500	Low to Mid altitude up to 1500 masl.	6.4		High yielding, Tolerant to MLND and drought
158.	WE 7118	2019	TARI Ilonga	0 - 1500	Low to Mid altitude up to 1500 masl.	6.7		High yielding, Tolerant to MLND and drought
159.	EAS 5019	2019	East Africa Seed (T) Ltd	800 - 2000	Mid Altitude Wet and Dry Areas			High yielding and resistant to GLS and MSV
160.	AMH500	2019	Alsem Seed Company	0 - 1500	Low to Mid altitude up to 1500 masl.			High yielding, resistant to GLS and farmers preference
161.	AMH501	2019	Alsem Seed Company	0 - 1500	Low to Mid altitude up to 1500 masl.			High yielding, resistant to GLS and preferred by farmers
162.	SY 6444	2019	Syngenta Tanzania td	700 - 1900	Northern and Southern Highlands			Stable and high yielding, Preferred by farmers and tollerant to GLS
163.	SY 5344	2019	Syngenta Tanzania td	700 - 1900	Northern and Southern Highlands			Stable and high yielding, Preferred by farmers and tollerant to GLS
164.	CAP9001	2019	Capstone Seeds S.A					White Hybrid
165.	DKC80-33	2019	Monsanto Tanzania Ltd	800 - 1600		7.0		Tolerant to MSV, GLS and blight Days to maturity 120
166.	DKC80-53	2019	Monsanto Tanzania Ltd			7.0		Tolerant to MSV, GLS and blight Days to maturity 130
167.	DKC80-	2019	Monsanto Tanzania			7.0		Tolerant to MSV, GLS

	73		Ltd					and blight Days to maturity 140
168.	DKC90-53	2019	Monsanto Tanzania Ltd					White Hybrid
169.	KKS 501	2019	Andrew Henderson					White Hybrid
170.	KKS 507	2019	Andrew Henderson					White Hybrid
171.	KKS 603	2019	Andrew Henderson					White Hybrid
172.	Lake 601	2019	Lake Agriculture					White Hybrid
173.	PAN 4M-23	2019	PANNAR SEED (PVT) LTD	800 - 1400		9.0		Excellent stress tolerance, GLS tolerance, NLB and MSV tolerant
174.	PAN 7M-81	2019	PANNAR SEED (PVT) LTD					White Hybrid
175.	SC 608	2019	Seed Co Zambia	800 - 1600				Resistance to GLS
176.	SC 633	2019	Seed Co Zambia					White OPV
177.	SC 637	2019	Seed Co Zambia					White Hybrid
178.	SC 727	2019	Seed Co Zambia					White Hybrid
179.	SC 303	2019	Seed Co Zambia	100 – 800				Early maturing variety (less than 120 days)
180.	SY 734	2019	Syngenta SA					White Hybrid
181.	SY 455	2019	Syngenta SA					White Hybrid
182.	SY 614	2019	Syngenta SA			10.0		Days to maturity 130 – 135
183.	SY 5054	2020	Syngenta Tanzania Ltd	800-1600	Medium to High			-High yielding potential -Early maturing -Tolerance to GLC
184.	EASH 902	2020	East Africa Seed Company	100-800	Low to Medium			
185.	EAS 401	2020	East African Seed Company					
186.	EASH 1231	2020	East Africa Seed Company	800-1200	Medium altitude			-High grain yield potential (4-7) -Large cob size and two cobs per plant -Strong stalk and Medium height

187.	EASH 1129	2020	East Africa Seed Company	800-1200	Medium altitude			<ul style="list-style-type: none"> -High grain yield potential -Early maturing variety -Large cob size and two cobs per plant -Strong stalk and Medium height
188.	UH6305	2020	Tanzania Agricultural Research Institute (TARI)	1200-2000	Medium to high			<ul style="list-style-type: none"> -High grain yield potential in its areas of adaptation (7-10) -High grain yield potential -Early maturing variety -Large cob size and two cobs per plant -Strong stalk and Medium height
189.	UH615ST	2020	Tanzania Agricultural Research Institute (TARI)	1200-2000	Medium to high			<ul style="list-style-type: none"> -High grain yield potential in its areas of adaptation (7-10) -Resistant to GLS, MSV and Turcicum Blight -Able to withstand ear rot -Good stand ability
190.	ZMS 405	2020	Zambia Seed Company Ltd	800-1400	Medium			<ul style="list-style-type: none"> -Medium early maturing variety -High yield potential of medium maturity group -Flint and hard kernel - Good tolerance to Maize Streak, Leaf blight and Cob rob
191.	ZMS 528	2020	Zambia Seed Company Ltd	800-1400	Medium			<ul style="list-style-type: none"> -Medium early maturing variety -High yield potential of medium maturity group

								-Flint and hard kernel - Good tolerance to Maize Streak, Leaf blight and Cob rob
192.	ZMS 638	2020	Zambia Seed Company Ltd	800-1400	Medium			-Medium early maturing variety -High yield potential of medium maturity group -Flint and hard kernel - Good tolerance to Maize Streak, Leaf blight and Cob rob
193.	ZMS 720	2020	Zambia Seed Company Ltd	800-1400	Medium			-Medium early maturing variety -High yield potential of medium maturity group -Flint and hard kernel - Good tolerance to Maize Streak, Leaf blight and Cob rob

Species: Paddy (*Oryza sativa*)

S/No	Variety	Year of release	Owners/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes
1.	Supa	Before 1950's	ARI KATRIN	0-400	Morogoro, Pwani, Mtwara, Lindi	1.5-3.5	-Leaf blade pubescence: pubescent -Leaf angle: erect -Auricle colour: pale green -Days to heading: 93-100 -Culm angle:erect	Moderately resistant to rice yellow mottle virus and shealth rot

							-Flage leaf angle:erect -Panicle type:intermediate -Second branching: light -Awn presence:absent -Grain shape:slender -Seed coat colour: white	
2.	IR 54	1980's	KATRIN	400-600	Morogoro, Kilimanjaro, Pwani, Tanga, Lindi, Mtwara	4.0-7.0	-Leaf blade pubescence:intermediate -Leaf angle:erect -Auricle colour:pale green -Days to heading:93-100 -Culm angle:intermediate -Flage leaf angle:erect -Panicle type:intermediate -Second branching:heavy -Awn presence:long and partly awned -Awn colour:gold -Grain shape: some white belly -Seed coat colour:white -Scent (aroma):aromatic	Moderately resistant to blight and sheath rot
3.	IR 22	1983	KATRIN	400-1000	Morogoro, Kilimanjaro, Pwani, Tanga, Lindi, Mtwara	6.6-8.0	Days to maturity: 120-134	Resistant to bacterial blight
4.	KATRIN	1983	KATRIN	400-1000	Morogoro, Pwani, Tanga, Lindi, Mtwara	6.6-8.0	-Leaf blade pubescence:intermediate -Culm angle:erect -Flage leaf angle:erect -Panicle type: compact -Second branching	Very low panicle shattering

							-Awn presence:absent -Scent (aroma):not scented Plant height: medium statured	
5.	Dakawa	1990	Dakawa	400-1000	Morogoro, Kilimanjaro, Pwani, Tanga, Lindi, Mtwara	3.5-5.2	-Leaf blade pubescence: pubescent -Leaf angle:horizontal -Days to heading: 75-85 days -Culm angle:intermediate -Flage leaf angle:horizontal -Panicle type: compact -Awn presence:absent -Awn colour:absent -Grain shape:medium slender grains -Seed coat colour: straw -Scent (aroma): scented -Plant height: 108 cm (semi-tall)	None-photoperiod sensitive. Resistant to lodging except under very high N levels. Easy to thresh
6.	TXD 85	2001	Dakawa	0-400	Morogoro, Kilimanjaro, Pwani, Mwanza, Shinyanga, Tanga, Lindi, Mtwara	4.8-7.0	-Leaf blade pubescence: glabrous -Leaf angle:erect -Days to heading:98-98 days -Flage leaf angle:erect -Panicle type: intermediate -Awn presence:short and partly awned -Awn colour: gold -Grain shape:slender -Scent (aroma): lightly scented	Moderately resistant to sheath rot, rice blast and Rice Yellow Mottle Virus

							-Plant height: semi-dwarf 103.5 cm	
7.	TXD 88	2001	Dakawa	0-400	Morogoro, Kilimanjaro, Pwani, Mwanza, Shinyanga, Tanga, Lindi, Mtwara	2.8-6.5	-Leaf blade pubescence: glabrous -Leaf angle: erect -Days to heading: 86-95 days -Flage leaf angle: erect -Panicle type: intermediate -Plant height: semi-dwarf -Awn presence: absent -Grain shape: slender -Scent (aroma): lightly scented	Moderately resistant to sheath rot, rice blast and Rice Yellow Mottle Virus
8.	TXD 306 (SARO 5)	2002	Dakawa	0-600	Morogoro, Kilimanjaro, Pwani, Mwanza, Shinyanga, Tanga, Lindi, Mtwara,	4.0-6.5	-Leaf blade pubescence: pubescent -Leaf angle: mixture of different types -Days to heading: 100-102 -Flage leaf angle: mixture of different types -Panicle type: intermediate Awn presence: absent Seed coat colour: light brown Scent (aroma): semi-aromatic	Moderated susceptible to Rice Yellow Mottle Virus and sheath rot. Adapted to rain-fed lowlands and irrigated ecosystems.
9.	Kalalu	2006	SUA		Morogoro, Kilimanjaro, Pwani, Mwanza, Shinyanga, Tanga,	2-3	-Leaf blade pubescence: glabrous -Leaf angle: horizontal -Flage leaf angle:	Resistant to Rice Yellow Mottle Virus and Rice blast

					Lindi, Mtwara		horizontal -Panicle type:intermediate -Awn presence: shortly and partly awned -Scent (aroma): -Plant height: 118 cm	
10.	Mwangaza	2006	SUA		Morogoro, Kilimanjaro, Pwani, Mwanza, Shinyanga,Tanga, Lindi, Mtwara	2-3	-Leaf blade pubescence: glabrous -Leaf angle:horizontal -Flage leaf angle: horizontal -Panicle type: heavy -Awn presence:shortly and fully awned -Plant height: 118 cm	Resistant to Rice Yellow Mottle Virus and Rice blast
11.	NERICA 1	2009	KATRIN		Morogoro, Mbeya, Mwanza, Mtwara, Pwani	3-4	-Mature in 90 to 100 days -	Drought resistant
12.	NERICA 2	2009	KATRIN		Morogoro, Mbeya, Mwanza, Mtwara, Pwani	3-3.5	Mature in 90 to 100 days -	Drought resistant
13.	NERICA 4	2009	KATRIN		Morogoro, Mbeya, Mwanza, Mtwara, Pwani	4.5- 5.5	Mature in 90 to 100 days -	Drought resistant
14.	NERICA 7	2009	KATRIN		Morogoro, Mbeya, Mwanza, Mtwara, Pwani	4.0- 5.5	Mature in 90 to 100 days -	Drought resistant
15.	WAB450 -12- 2BLB- DV4	2009	KATRIN		Morogoro, Mbeya, Mwanza, Mtwara, Pwani	5.0- 6.0	Mature in 90 to 100 days -	Drought resistant
16.	Komboka	2012	KATRIN	0- 1300		5- 6t/ha	Maturity	-It has good aroma -Resistant to Rice Yellow Mottle Virus, bacterial Leaf spot and Bacterial leaf

								blast
17.	Tai	2012	KATRIN	0 - 1300		5 -6.5	Maturity	-It has good aroma -Resistant to Rice Yellow Mottle Virus, bacterial Leaf spot and Bacterial leaf blast
18.	CH-SATO1	2015	ARI Cholima	0-1000	Eastern, Southern, Northern, Central and Western Zone	7.8		Tolerant saline and sodic soils
19.	CH-SATO9	2015	ARI Cholima	0-1000	Eastern, Southern, Northern, Central and Western Zone	8.2		Tolerant saline and sodic soils
20.	Arize644 4 Gold	2018	Bayer Life Sciences LTD	0-1000	Mwanza, Mtwara, Pwani, Tanga, Kilimanjaro, Arusha, Mbeya	5		High yielding and Resistant to Leaf Blight
21.	TARI-RIC1	2020	Tanzania Agricultural Research Institute (TARI)	100-1200	Low to Medium			-High grain yield potential and stability in its areas of adaptation -Aromatic with good cooking quality (stays soft after cooling) -Good grain quality (translucent, long bold- slender grains) -High grain yield potential and stability in its areas of adaptation -Aromatic with good

								cooking quality (stays soft after cooling) -Good grain quality (translucent, long bold- slender grains)
22.	TAR-RIC2	2020	Tanzania Agricultural Research Institute (TARI)	100-1200	Low to Medium			-High grain yield potential and stability in its areas of adaptation -Good grain quality (translucent, long bold- slender grains) -Early maturing -Aromatic with good cooking quality (stays soft after cooling) -Good grain quality (translucent, long bold- slender grains)

Species: Wheat (*Triticum aestivum.L*)

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Mamba	1973	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0-3.0		Resistant to stripe rust
2.	Nyati	1973	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0-3.0	-Leaf glaucosity: strong -Flag leaf altitude: drooping -Culm glaucosity: strong	Moderately resistant to yellow, leaf and stem rusts.

							<ul style="list-style-type: none"> -Sheath glaucosity: strong -Spike density: moderate dense -Spike glaucosity: weak -Awns: very long -Plant height: 87 cm -Awn colour: -white -Colour: medium red Shape: elliptical and shriveled 	
3.	Mbuni	1975	ARI Selian	1200-2400	Arusha, Manyara, Iringa, Mbeya	1.5-4.1	<ul style="list-style-type: none"> -Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: semi-prostate -Auricle pubescence: strong -Sheath glaucosity: strong -Spike shape: fusion -Spike density: lax -Spike glaucosity: weak -Awns: awned -Glume pubescence: absent -Glume colour: light green -Plant height: 80 cm -Awn colour: white -Spike attitude: inclined - Kernel colour: white - Kernel shape: ovate 	Susceptible to leaf, stem and yellow rust.
4.	Kweche	1975	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0-3.0	<ul style="list-style-type: none"> -Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: mod+pubescence -Stem node pubescence: 	Medium susceptible to yellow rust

							<p>absent</p> <p>-Auricle pubescence: weak</p> <p>-Sheath glaucosity: strong</p> <p>-Spike shape: fusiform</p> <p>-Spike density: mid-dense</p> <p>-Spike glaucosity: strong</p> <p>-Awns: awned</p> <p>-Glume pubescence: absent</p> <p>-Glume colour: bluish green</p> <p>-Plant height : 104 cm</p> <p>-Spike attitude: nodding</p> <p>-Kernel colour: medium red</p> <p>-Kernel shape: elliptical and shriveled</p>	
5.	Trophy	1975	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0-3.0	<p>-Leaf glaucosity: weak</p> <p>-Growth habit: upright</p> <p>-Flag leaf altitude: erect</p> <p>-Culm glaucosity: strong</p> <p>-Auricle pubescence: weak</p> <p>-Sheath glaucosity: strong</p> <p>-Spike shape: oblong</p> <p>-Spike density: lax</p> <p>-Spike glaucosity: medium</p> <p>-Awns: spical awnletted</p> <p>-Glume pubescence: absent</p> <p>-Plant height: 113 cm</p> <p>-Spike attitude: erect</p>	<p>Medium red seed colour.</p> <p>Susceptible to yellow rust</p>

							-Kernel colour:medium red -Kernel shape: ovate	
6.	Tai	1977	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0- 3.0	-Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: medium -Auricle pubescence: weak -Sheath glaucosity: oblong -Spike shape: mid-dense -Spike density: weak -Spike glaucosity: weak -Awns: awned -Glume pubescence:absent -Glume colour:light green -Plant height: 109 cm -Awn colour: brown -Spike attitude: inclined Kernal colour:dark red Kernal shape: ovate	Has dark red kernel colour Moderately susceptible to yellow and stem rust.
7.	Kozi	1977	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0- 3.0	-Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: strong -Steam node pubescence: medium -Auricle pubescence: absent -Sheath glaucosity: strong -Spike shape: oblong -Spike density: mid-lax -Spike glaucosity: weak -Awns: awned	Has dark red kernel colour Moderately susceptible to yellow rust

							<ul style="list-style-type: none"> -Glume pubescence:absent -Glume colour:light green -Plant height : 80 cm -Awn colour: white -Spike attitude: inclined -Kernel colour:white -Kernel shape: ovate 	
8.	Joli	1977	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0-3.0	<ul style="list-style-type: none"> -Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: medium -Steam node pubescence: absent -Auricle pubescence: weak -Sheath glaucosity: strong -Spike shape: fusion -Spike density: lax -Spike glaucosity: weak -Awns: awned -Glume pubescence:absent -Glume colour:grass green -Plant height:85 cm -Awn colour: white -Spike attitude: nodding -Kernel colour:white - Kernel shape: ovate 	Moderately resistant to yellow rust.
9.	Viri	1983	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	1.5-4.7	<ul style="list-style-type: none"> -Leaf glaucosity: medium -Groth habit: upright -Culm glaucosity: strong -Auricle pubescence: 	Resistant to yellow and leaf rust. Moderately susceptible to stem rust.

							medium -Sheath glaucosity: strong -Spike shape: oblong -Spike density: mid dense -Spike glaucosity: medium -Awns: awned -Glume pubescence: absent -Glume colour: bluish green -Plant height: 89 cm -Awn colour: white -Spike attitude: inclined - Kernel colour: white -Kernel shape: ovate	
10.	Duma (Durum)	1983	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	1.1-4.5	-Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: strong -Auricle pubescence: absent -Sheath glaucosity: strong -Spike shape: oblong -Spike density: mid-dense -Spike glaucosity: strong -Awns: awned -Plant height: 79 cm -Awn colour: -brown -Spike attitude: inclined -Kernel colour: amber -Kernal shape: ovate	Resistant to stem rust
11.	Mbayuway	1987	ARI Selian	1200-2400	Arusha,	1.4-	-Leaf glaucosity: strong	Moderately resistant

	u				Manyara, Iringa, Mbeya	2.8	-Growth habit: erect -Flag leaf altitude: erect -Culm glaucosity: strong -Spike density: medium -Awns: medium -Plant height: 92 cm -Awn colour: white -Spike attitude: inclined -Kernel colour:pale red -Kernel shape: ovoid	to yellow, stem and leaf rusts. Has brown seed colour.
12.	Azimio 87	1987	ARI Selian	1200-1800	Arusha, Manyara, Iringa, Mbeya	1.8- 3.0	-Growth habit: erect -Flag leaf altitude: erect -Culm glaucosity: strong -Spike density: strong -Awns: strong -Glume pubescence: -Plant height: 80 cm -Awn colour: white -Spike attitude: inclined -Kernel colour:white -Kernel shape: semi-elongated	Resistant to stem, leaf and yellow rusts.
13.	Tausi	1987	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	2.0- 4.0	-Leaf glaucosity: strong -Growth habit: erect -Flag leaf altitude: erect -Culm glaucosity: strong -Spike density: strong -Plant height:70 cm -Awn colour: white -Spike attitude: inclined -Kernel colour:white	Susceptible to leaf, stem and yellow rusts.
14.	Tembo	1987	ARI Selian	1283-2400	Arusha, Manyara, Iringa, Mbeya	ARI Selian	1283-2400	
15.	Selian 87	1987	ARI Selian	1200-1800	Arusha, Manyara, Iringa, Mbeya	ARI Selian	1283-2400	Highly resistant to stem, leaf and yellow rusts

16.	Juhudi No:1	1987	TANWAT	1700-2200	Iringa, Mbeya	3.0-4.0	-Days to maturity: 90-110	Resistant to all yellow, stem and leaf rusts. Resistant to <i>Septoria</i>
17.	Njombe 6	1987	TANWAT	1500-2400	Iringa, Mbeya	2.1-4.1	- Days to maturity:110-120	Highly resistant to leaf, stem and yellow rusts
18.	Njombe 7	1987	TANWAT	1500-2400	Iringa, Mbeya	3.0-4.2	- Days to maturity: 110-120	Highly resistant to all rusts <i>Fusarium</i> spp and root fungi. Resistant to <i>Septoria</i> spp.
19.	Kware	1989	ARI Selian	1300-1400	Arusha, Manyara, Iringa, Mbeya,	2.0-3.0	-Growth habit:erect -Flag leaf altitude: straight -Culm glaucosity: strong -Auricle pubescence: absent -Spike shape: straight inclined -Spike density: mid-dense -Awns: present -Glume colour:white at maturity -Awn colour: -blue green before, maturity white maturity Spike attitude: nodding -Kernel colour:white -Kernel shape: ovate	Moderately resistant to yellow, leaf and stem rusts. Moderately resistant to <i>Septoria</i> , leaf and spot blotch
20.	Chiriku	2002	ARI Selian	1300-2400	Arusha, Manyara, Iringa, Mbeya	2.2		Slow rusting
21.	Sifa	2004	ARI Uyole	1700-2300	Mbeya,Iringa	4.5 –	-Growth habit:erect	Moderate resistant to

						5.0	<ul style="list-style-type: none"> -Culm glaucosity:present-whitish -Auricle pubescence: hairs present -Spike density: dense -Awns: awned -Glume pubescence: very weak or absent -Glume colour:whitish green -Kernelcolour:yellow -Kernel shape: ovate -Plant height: 83 cm 	Septorial leaf blotch and Stripe rust
22.	Riziki –C ₂	2006	ARI Selian	1000 - 1500	Arusha, Manyara, Iringa, Mbeya	2.7	<ul style="list-style-type: none"> -Leaf glaucosity: present (medium) -Growth habit:erect -Culm glaucosity:weak -Auricle pubescence: medium -Sheath glaucosity: medium -Spike shape: parallel -Spike density: medium -Spike glaucosity: medium -Awns: awned -Glume pubescence: absent -Glume colour:straw white -Plant height:86 cm -Awn colour: -white -Spike attitude: straight -Kernel colour:brown -Kernel shape: semi elongated 	Moderate resistant to Stripe rust, Stem and Leaf rust

23.	RIZIKI – C ₁	2006	ARI Selian	1000-2000	Arusha, Manyara, Iringa, Mbeya	3.5t	-Leaf glaucosity: absent -Growth habit: erect -Culm glaucosity: absent -Auricle pubescence: weak -Sheath glaucosity: absent -Spike shape: parallel -Spike density: medium -Spike glaucosity: absent -Awns: awned -Glume colour:white -Plant height: 99 cm -Awn colour: white -Spike attitude: straight -Kernel colour:brown -Kernel shape: semi elongated	Moderate resistant to Stripe rust, Stem and Leaf rust
24.	Lumbesa	2006	ARI Selian	1000-2000	Arusha, Manyara, Iringa, Mbeya	3.5	-Leaf glaucosity: absent/weak -Growth habit: erect -Culm glaucosity: absent -Auricle pubescence: weak -Sheath glaucosity: absent/weak -Spike shape: parallel -Spike density: medium -Spike glaucosity: absent/weak -Awns: awned -Glume pubescence:medium -Glume colour:straw white	Moderate resistant to Stripe rust, Stem and Leaf rust

							-Plant height: 80 cm -Awn colour: white -Spike attitude: straight -Kernel colour: brown -Kernel shape: semi elongated	
25.	Merina	2014	ARI Uyole	1500-2500	Arusha, Manyara, Iringa, Mbeya	3		It has high level of glutein and protein (12.6%) Resistant to leaf rust
26.	Shangwe	2014	ARI Uyole	1500-2500	Arusha, Manyara, Iringa, Mbeya	3.5		It has high level of glutein and protein (12.6%) Resistant to leaf rust
27.	Ngoli	2014	ARI Uyole	1500-2500	Arusha, Manyara, Iringa, Mbeya	2.8		It has high level of glutein and protein (12.6%) Resistant to leaf rust
28.	SC Nduna	2019	Seed Co Zambia	1500-2500				OPV Days to maturity 117
29.	SC Shime	2019	Seed Co Zambia	1500-2500				White OPV

Species: Barley (*Hordeum vulgare* L.)

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (Tons/Ha)	Distinctive Characters	Special attributes/Disease reaction
1.	Makete-I Naked barley)	1987	ARI Uyole	1850-2500	Mbeya, Iringa	2.0-3.5	-Ear glaucosity: weak -Flag leaf altitude: drooping -Culm glaucosity: strong	Resistant to leaf rust and spot

							-Plant height : 80 cm	
2.	Kibo	1991	ARI Selian	1300-1900	Arusha, Manyara	3.5-4.0	Growth type: erect -Colour of leaves : green -Tillering capacity: moderate -Spike: spikelets have long awns -Colour of spike at grain filling: light green -Awns colour: light green -Hairiness of awns: rough	Moderate malting quality. Resistant to powdery mildew, loose and covered smut. Resistant to leaf and stem rusts.
3.	Subira	1995	TBL	1300-2000	Arusha, Manyara	2.6	-Growth type: erect -Spike density: long very lax -Colour of spike at grain filling: pinkish -Leaf colour: green -Length and shape of basal rachis internode: short, curved -Degree of awning: moderate -Plant height: 60 cm -Awns colour: pinkish -Hairiness of awns: rough	Moderate malting quality. Resistant to powdery mildew, loose and covered smut Resistant to leaf and stem rusts. Tolerant to net and spot blotches.
4.	8519	1996	TBL	1000-1200	Arusha, Manyara	2.0-3.5	-Growth type: erect -Colour of leaves : pale green -Size of leaves: large -Tillering: fair -Spike density: long	Moderate malting quality. Tends to have high N content. Resistant to powdery mildew, loose and covered smut.

							<ul style="list-style-type: none"> very lax -Colour of spike at grain filling: green -Colour of spike at grain filling: pinkish -Awns colour: pinkish -Hairiness of awns: 	Resistant to leaf and stem rusts. Tolerant to net and spot blotches
5.	Bima	1998	TBL	1500-2200	Arusha, Manyara	1.0-2.1	<ul style="list-style-type: none"> -Growth type: semi-erect -Colour of leaves: pale green -Size of leaves: small -Tillering: heavy -Spike density: medium lax -Colour of spike at grain filling: pinkish -Plant height: medium -Awns colour: pinkish 	Very good malting quality. Resistant to powdery mildew, loose and covered smut. Resistant to leaf and stem rusts. Susceptible to net and spot blotches.
6.	Kusini	2001	TBL	1000-1200	Arusha, Manyara	2.0-3.0	<ul style="list-style-type: none"> -Growth type: erect -Colour of leaves: pale green -Size of leaves: small -Tillering: medium -Spike density: medium lax -Number of fertile rows in spike: 2 -Colour of spike at grain filling: pinkish -Plant height: medium -Awns colour: green 	Good malting quality. Resistant to powdery mildew, loose and covered smut. Resistant to leaf and stem rusts. Tolerant to net and spot blotches. Susceptible to lodging in more fertile and humid environment.
7.	Kame	2004	TBL	1000-2000	Arusha, Manyara	2.0-2.5		

8.	9831	2004	TBL	1000-1200	Arusha, Manyara	2.0-3.0	-Growth type: erect -Colour of leaves: pale green -Spike density: medium lax -Colour of spike at grain filling: strongly pink -Plant height: medium -Awns colour: strongly pink -Grain length: medium long -Days to 50 % ear emergency: early, about 50 DAP	Disease Reaction: Moderate
9.	SSG 564	2011	TBL	100-2500		2.0-3.5	Maturity 150 days	High yielding, Good brewing Characteristics
10	SHIRA	2012	TBL	100-2500		5.0- 6.0	Maturity 150 days	High yielding, Good brewing Characteristics
11	T-279	2012	TBL	100-2500		5.5 -6.0	Maturity 150 days	High yielding, Good brewing Characteristics

Species: Oats (*Avena sativa* L.)

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive Characters	Special attributes/Disease reaction
1.	Kudu	1987	ARI Uyole	1770-2350	Mbeya, Iringa	7.0	-Standability at late tillering:erect -Plant height: 121 (cm) -Culmglaucosity:medium -Flag leaf attitude at	Forage crop. Resistant to <i>Septoria</i> , crown rust and tan spot

							booting:drooping -Flag leaf sheath glaucosity:strong -Flag leaf hairiness:weak -Leaf blade glaucosity:weak -Mature ear colour:white -Ear glaucosity:very weak -Ear density:loose -Degree of awning:slight -Grain brush hairs:heavy -Days to spike emergence:65-70	
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Species: Triticale

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive Characters	Special attributes/ Disease reaction
	1.T. Tembo	1982/3	ARI Uyole	1000-2400	Mbeya, Iringa	3.4	-Leaf glaucosity: weak -Growth habit: upright -Culm glaucosity: medium -Sheath glaucosity: strong -Spike density: mid dense -Spike glaucosity: strong -Awns: awned -Plant height: 104 cm -Awn colour: white -Kernel colour:medium red -Kernel shape:elliptical	Resistant to all rusts, tolerant to tan spots, spot blotch and <i>Septoria</i>

							and shrived	
	2. Uyole Sangara	1986/7	ARI Uyole	1500-2400	Mbeya, Iringa	>4.0	-Leaf glaucosity: weak Growth habit: erect -Days to 50 % flowering: 68-76 days -Culm glaucosity: medium -Sheath glaucosity: strong -Spike density: weak -Spike glaucosity: weak -Awns: awned medium -Plant height: 107 cm -Awn colour: white -Kernel colour:white -Kernel shape:elliptical	Resistant to all rusts and <i>Septoria</i>
	3.TANWAT T.87	1987	TANWAT	1500-2400	Mbeya, Iringa	4.0	-Leaf glaucosity: weak -Growth habit: semi prostrate -Culm glaucosity: medium -Sheath glaucosity: medium -Spike glaucosity: medium -Awns: awned -Plant height: 127 cm -Awn colour: brown -Kernel colour: ambercolour -Kernel shape:elliptical	Resistant to <i>Septoria</i> , <i>Helminthosporium</i> and <i>Fusarium</i> spp

Species: Sorghum (*Sorghum bicolor* (L.) Moench

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive Characters	Special attributes/Disease reaction
1.	Serena	1960	EAC	600-1500	Morogoro, Dodoma, Shinyanga, Kilimanajaro, Singida, Pwani	3.0-3.5	Grain colour: red	Tolerant to <i>Striga hermonthica</i> and <i>S. asiatica</i> and <i>S. Forbesii</i> .
2.	Tegemeo	1978	ARI Ilonga	600-1500	Morogoro, Dodoma, Shinyanga, Kilimanajaro, Singida, Pwani,	2.5-3.0	-Hairiness: absent -Plant colour: tan -Leaf colour: light green, some plants have puplish pigments on lower leaves -Plant height: 1.5-1.8 m -Days to 50 % flowering: 70-72 -Awn at maturity: absent -Head shape: bell -Grain colour: white (pearl), -Glume colour: straw,	Susceptible to <i>Striga hermonthica</i> and <i>S. asiatica</i> and <i>S. Forbesisi</i> .
3.	Pato	1997	ARI Ilonga	600-1500	Morogoro, Dodoma, Shinyanga, Kilimanajaro, Singida, Pwani	1.6-3.3	-Leaf colour:green medium leafy, drooping -Plant height: 190 -240 cm -Days to 50 % flowering: 67-72 days, -Head shape: medium sized semi open, short bulky heads -Grain colour: creamy white with purple specks -Glume colour: black,	Susceptible to <i>Striga hermonthica</i> and <i>S. asiatica</i> and <i>S. Forbesisi</i>

							very conspicuous -Grain form: elliptic	
4.	Macia	1998	ARI Ilonga	600-1500	Morogoro, Dodoma, Shinyanga, Kilimanjaro, Singida, Pwani	2.5- 3.0	-Plant colour: tan -Plant height: 120-150 cm (semi-dwarf) -Days to 50 % flowering: 60-65 -Awn at maturity: absent -Head shape: symmetric, semi-compact, large and bulbous with good exertion (10-15 cm) -Grain colour: creamy white -Grain form: elliptic	Moderately resistant to <i>Striga hermonthica</i> and <i>S. asiatica</i> and <i>S.</i> <i>Forbesii</i>
5.	Wahi	2002	ARI Ilonga	600-1500	Morogoro, Dodoma, Shinyanga, Kilimanjaro, Singida, Pwani	3.5	-Stem diameter of lower third (at maturity): large -Glume colour at maturity: reddish brown -Glume length at maturity: short -Cariopsis colour after threshing: straw yellow -Grain shape in dorsal view: circular -Grain shape in profile view: circular - Leaf width: broad	Highly tolerant to <i>Striga hermonthica</i> , <i>S.</i> <i>asiatica</i> and <i>S.</i> <i>Forbesii</i> . Resistant to leaf blight and sooty stripe. Susceptible to long smut.
6.	Hakika	2002	ARI Ilonga	600-1500	Morogoro, Dodoma, Shinyanga, Kilimanjaro, Singida, Pwani	3.5	Stem diameter of lower third (at maturity): small -Glume colour at maturity: reddish brown -Short -Glume length at maturity: short -Cariopsis colour after threshing: orange	Resistant to <i>Striga</i> <i>hermonthica</i> and <i>S.</i> <i>asiatica</i> and <i>S.</i> <i>forbesii</i> . Resistant to leaf blight.

							-Grain shape in dorsal view: elliptic -Grain shape in profile view: elliptic - Leaf width: narrow -Rooting ability : has high power of rooting	
7.	Sila	2008	SEEDCO	600-1500	Dodoma, Shinyanga, Singida	2.2–2.6t/ha	-Drought tolerant -Plant height – 120 – 138 cm -50% heading; 55 – 76 100 days to maturity	
8.	NACO MTAMA 1	2012	Namburi Agricultural Company	0 – 1200	Low to Medium	4.5 – 5.5t/ha	Maturity: 100 – 115 days	
9.	NACO SH1	2013	Namburi Agricultural Company	0 – 1200	Low to Medium	3 – 3.5t/ha	Maturity: 110 – 115 days	It has big seed size compared to other sorghum varieties
10.	NACO SH2	2013	Namburi Agricultural Company	0 – 1200	Low to Medium	3 – 3.5t/ha	Maturity: 110 – 115 days	It has big seed size compared to other sorghum varieties
11.	PAC 537	2014	Advanta Seed Company	600-1500	Medium	3.8		Suits for animal feeds and human consumption
12.	PAC 501	2014	Advanta Seed Company	600-1500	Medium	3.7		Suits for animal feeds and human consumption
13.	Rakodzi	2019	Klein Karoo Seed Marketing Zimbabwe				Maturity: 110 days	
14.	SC Shaku	2019	Seed Co Zambia				Maturity: 116 days	OPV
15.	Shirikure	2019	Klein Karoo Seed Marketing Zimbabwe				Maturity: 116 days	OPV
16.	Vumba	2019	Klein Karoo Seed Marketing Zimbabwe				Maturity: 114 days	OPV Good tolerance to rust and leaf blight

Species: Pearl Millet (*Pennisetum glaucum* L.)

S/No.	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/ Disease reaction
1.	Shibe	1994	ARI Ilonga	0-1200	Morogoro, Dodoma, Shinyanga, Kilimanajaro, Singida, Pwani	1.8-2.0	-Tillering attitude at head emergency: erect -Spike shape:cylindrical -Bristle length :absent -Days to flowering: 90-95 -Spike shape:cylindrical -Seed colour:grey -Seed shape:obovate -Plant height (m):1.5-2.5	Resistant to <i>Striga hermonthica</i> and <i>S. asiatica</i> and <i>S. Forbesii</i>
2.	Okoa	1994	ARI Ilonga	0-1300	Morogoro, Dodoma, Shinyanga, Kilimanajaro, Singida, Pwani	2.0-2.5	-Tillering attitude at head emergency: erect -Spike shape:cylindrical -Bristle length :absent -Days to flowering: 87-92 -Spike shape:cylindrical -Spike density at maturity: compact -Seed colour:grey -Seed shape:obovate -Plant height (m):1.8-2.8	Resistant to <i>Striga hermonthica</i> and <i>S. asiatica</i> and <i>S. Forbesii</i> Moderately tolerant to ergot disease (Sugary disease)

Species: Bean (*Phaseolus vulgaris* L.)

S/No.	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/ Disease reaction
1.	Canadian	1977	ARI Selian	1000-1800	Arusha,	1.1-2.4	-Anthocyanin	Moderately

	wonder				Kilimanjaro, Tanga, Morogoro		<ul style="list-style-type: none"> colouration:present - Leaf colour:green -Growth habit:upright erect -Twining tendency: absent -Plant height (cm):46 -Days to flowering:33 -Flower colour:purple -Pod colour at maturity:yellow -Seed shape:kidney -Testa texture:smooth -Testa colour:dark red -Seed size:large 	resistant to halo blight and bean common mosaic virus
2.	Kabanima	1980	ARI Uyole	1200-1800	Mbeya, Rukwa, Iringa,Morogoro	1.5-1.8	<ul style="list-style-type: none"> -Anthocyanin colouration:present -Leaf colour:green -Growth habit:upright erect -Twining tendency: absent -Plant height (cm):40 -Days to flowering:39 -Flower colour:white -Pod colour at maturity:cream -Seed shape:kidney -Testa texture:smooth -Testa colour:mottled red -Seed size:large 	Resistant to anthracnose and rust
3.	Uyole 84	1984	ARI Uyole	900-2000	Mbeya, Rukwa, Iringa, Morogoro, Ruvuma	1.5-2.0 (non staked) 2.5-4.0 (staked)	<ul style="list-style-type: none"> -Anthocyanin colouration:absent -Leaf colour:light green -Growth habit:climber (aggressive) -Twining tendency: present -Plant height (cm): up to 200 -Days to flowering:42-46 days -Flower colour:white -Pod colour at maturity:cream yellow -Seed shape:round and semi 	Resistant to anthracnose and halo blight

							-Testa texture:smooth -Seed size:medium	
4.	Uyole 90	1990	ARI Uyole	1500-2000	Mbeya, Rukwa, Iringa	1.5-2.0	-Days to maturity: 60-62 -Days to 50 % flowering: 30-32	It is tolerant to halo blight and angular leaf spot
5.	Uyole 94	1994	ARI Uyole	1000-1800	Mbeya, Rukwa, Iringa	1.0-1.8	Days to maturity: 90-92 -Days to 50 % flowering: 40	Resistant to <i>ascochyta</i> and rust, tolerant to Bean Common Mosaic Virus and Angular Leaf Spot
6.	Uyole 96	1996	ARI Uyole	1000-1800	Mbeya, Rukwa, Iringa	1.0-1.8	Days to maturity: 85 -Days to 50 % flowering: 38	Tolerant to rust, <i>ascochyta</i> and Bean Common Mosaic Virus
7.	Uyole 98	1998	ARI Uyole	1000-2000	Mbeya, Rukwa, Iringa	1.2-2.0	-Days to maturity: 85 -Days to 50 % flowering: 38	Resistant to anthracnose, angular leaf spot and rust. Tolerant to halo blight and <i>ascochyta</i>

8.	Ilomba	1990	ARI Uyole	1200-2000	Mbeya, Rukwa, Iringa	1.5-2.5	-Days to maturity: 88 -Days to 50 % flowering: 40	Resistant to anthracnose, halo blight and rust, Tolerant to <i>ascochyta</i>
9.	Lyamungu 85	1985	ARI Lyamungu	900-1800	Arusha, Kilimanjaro, Tanga	1.2-1.5	-Anthocyanin colouration:present - Leaf colour:green -Growth habit:upright erect -Twining tendency: absent -Plant height (cm):46 -Days to flowering:33 -Flower colour:purple -Pod colour at maturity:yellow -Seed shape:kidney -Testa texture:smooth -Seed size:large	Resistant to anthracnose, angular leaf spot, Bean Common Mosaic Virus and intermediate to common bacteria blight.
10.	Lyamungu 90	1990	ARI Lyamungu	900-1800	Arusha, Kilimanjaro, Tanga	1.2-1.6	-Days to maturity: 80-85	Has low tannin content Resistant to leaf rust and anthracnose
11.	Selian 94	1994	ARI Selian	900-1500	Arusha, Kilimanjaro, Tanga	2.5-3.5	-Anthocyanin colouration:weak -Leaf colour:dark green -Growth habit: erect -Twining tendency: present -Plant height (cm):50-60 -Days to flowering:42 -Flower colour:pink -Pod colour at maturity:light yellow -Seed shape:oval -Testa texture:smooth -Testa colour:light pink with	Moderately susceptible to anthracnose and angular leaf spot

							red speckles -Seed size:medium	
12.	JESCA	1997	ARI Selian	1000-1500	Arusha, Kilimanjaro, Tanga	2.0-3.4	-Days to maturity: 80-85 -Days to 50 % flowering: 35	Resistant to anthracnose, Bean Common Mosaic Virus and halo blight, moderately resistant to bean rust, angular leaf spot, common bacterial blight
13.	Selian 97	1997	ARI Selian	1000-1500	Arusha, Kilimanjaro, Tanga	2.0-2.8	-Leaf colour:dark green -Growth habit:strong erect stem with braches -Twining tendency: absent -Plant height (cm):40 -Days to flowering:40 -Flower colour:pink -Pod colour at maturity:light yellow -Seed shape:kidney -Testa texture:smooth Testa colour: red (but lighter than Canadian wonder) -Seed size:large	Resistant to anthracnose, Bean Common Mosaic Virus and halo blight, moderately resistant to bean rust, angular leaf spot, common bacterial blight
14.	Rojo	1997	SUA	<1000	Morogoro, Tanga	2.2	-Days to maturity: 67-74 -Days to 50 % flowering: 32-37	Resistant to Bean Common

								Mosaic Virus, moderately resistant to common bacterial blight and nematodes. Grains are fast cooking
15.	Wanja	2002	ARI Uyole	800-1800	Mbeya, Iringa, Rukwa	1.5	<ul style="list-style-type: none"> -Anthocyanin colouration:green -Leaf colour:green -Growth habit:upright -Twining tendency: absent -Plant height (cm):35-45 Days to flowering:38-38 -Flower colour:pink -Pod colour at maturity:cream -Seed shape:larege kidney -Testa texture:smooth -Testa colour: greenish Khaki -Seed size:large 	Early maturity and drought tolerant. Large khaki seeds with black halo around the hilum
16.	BILFA 16	2004	ARI Uyole	1000-1900	Mbeya, Iringa, Ruvuma	1.5-2.5	<ul style="list-style-type: none"> -Anthocyanin colouration:green -Leaf colour:green -Growth habit:bushy with many branches -Twining tendency: absent -Plant height (cm):40-44 -Days to flowering:30-38 -Flower colour:pink -Pod colour at maturity:yellow -Seed shape:plumb -Testa texture:smooth -Testa colour: broken white stripes on dark red background -Seed size:medium 	Tolerant to Halo blight, Drought resistant Resistant to Anthracnose and bean rust

17.	Uyole 04	2004	ARI Uyole	1200-2000	Mbeya, Iringa, Ruvuma	2.0 – 2.5	-Leaf colour:green -Growth habit: many branches and tendency to tail -Twining tendency: semi climber -Plant height (cm):45-60 -Days to flowering:30-38 -Flower colour:pink -Pod colour at maturity:pale cream/whitish -Seed shape:kidney -Testa texture:smooth -Seed size:large	Resistant to Bean rust, Anthracnose and Tolerant to Halo blight and drought
18.	Pesa	2006	SUA	Low to medium	Morogoro, Tanga	0.9-1.5	-Growth habit:bush -Twining tendency: none -Plant height (cm):44 -Days to flowering:28-32 -Flower colour:pink - Pod colour at maturity:light brown -Seed shape:kidney -Testa texture:smooth -Testa colour: dark red	Moderate resistant and Angular Leaf Spot. Resistant to Bean Common Mosaic Virus and short to modern cooking time
19.	Mshindi	2006	SUA	Low to medium	Morogoro, Tanga, Singida	0.9-1.5	- Anthocyanincolouration:present -Leaf colour:green -Growth habit:bush -Twining tendency: none -Plant height (cm):48 -Days to flowering:28-32 -Flower colour:pink -Pod colour at maturity:light brown -Seed shape:roundish	Moderate resistant to Angular Leaf Spot and Resistant to Bean Common Mosaic Virus Has short to

							-Testa colour:grey mottled -Seed size:medium	modern cooking time
20.	Selian 05	2005	ARI Selian	1000-1500	Arusha, Manyara, Kilimanjaro, Tanga	1.0-1.6	-Days to flowering:43 -Flower colour:white -Pod colour at maturity:yellow -Seed shape:oval -Testa colour: khaki -Seed size:large	Resistant to Bean rust, Anthracnose, Mosaic Virus, and Halo blight
21.	SELIAN 06	2007	ARI Selian	>1500	Arusha, Kilimanjaro, Tanga, Manyara	2.5-3.0	-Days to flowering:40 -Flower colour:white -Pod colour at maturity: light brown -Seed shape:oval -Testa colour: white -Seed size:medium	Resistant to Bean rust, Anthracnose, Mosaic Virus, and Halo blight
22.	CHEUPE	2007	ARI Selian	>1500	Arusha, Manyara, Kilimanjaro, Tanga	2.5-3.0	-Days to flowering:42 -Flower colour:white -Pod colour at maturity: light brown -Seed shape:oval -Testa colour: white -Seed size:medium	Resistant to Bean rust, Anthracnose, Mosaic Virus, and Halo blight
23.	Njano Uyole	2008	ARI Uyole	1000 - 2000	Mbeya, Ruvuma, Iringa,	2.5 – 3.0	-Days to maturity 75 – 90 -Plant height: 63 cm. -Colour: yellow seeded	-Proposed for release in S. Highland -Resistant to Anthracnose
24.	Calima-Uyole	2011	ARI Uyole	100-2000	Medium to High Altitude	2.0 t/ha	Maturity- 75-90 days	
25.	Rosenda	2012	ARI Uyole	1000 - 1200	Medium Altitude	2.1t/ha	Maturity- 75-90 days	
26.	Pasi	2012	ARI Uyole	1000 - 2000	Medium to High Altitude	2.1t/ha	Maturity- 75-90 days	

27.	Fibea	2012	ARI Uyole	1000 - 2000	Medium to High Altitude	2t/ha	Maturity- 75-90 days	
28.	Uyole Nyeupe	2017	ARI Uyole	800 - 2000	Medium to High Altitude	2.3 – 3.0		
29.	Uyole 16	2017	ARI Uyole	800 - 2000	Medium to High Altitude	2.3 – 3.5		
30.	SELIAN 09	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	1.5		
31.	SELIAN 10	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	1.5 – 2.0		
32.	SELIAN 11	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	1.5 – 2.0		
33.	SELIAN 12	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	1.2		
34.	SELIAN 13	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	1.2		
35.	SELIAN 14	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	2.0		
36.	SELIAN 15	2018	ARI SELIAN	1000 - 1800	Medium to High Altitude	2.0		
37.	UYOLE 17	2018	ARI UYOLE	800 - 2000	Medium to High Altitude	3.0 – 3.5		
38.	UYOLE 18	2018	ARI UYOLE	800 - 2000	Medium to High Altitude	3.2		
39.	Kware	2019	Klein Karoo Seed Marketing Zimbabwe				Maturity: 99 – 113 days	
40.	Sc Bounty	2019	Seed Co Zambia					

Species: Cow pea (*Vigna unguiculata* (L.) Walp.)

S/No.	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
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1.	Tumaini	1978	ARI Ilonga	0-1500	Morogoro, Pwani, Tanga	2.4	-Leaf colour:darkness Leaf texture: smooth -Growth habit:indeterminate -Twining tendency: slight -Days to flowering:48 -Flower colour:purple -Seed colour: tan -Seed shape:kidney -Seed size:medium	Resistant to mosaic virus and intermediately resistant to bacterial blight
2.	Fahari	1978	ARI Ilonga	0-1500	Morogoro, Pwani, Tanga	2.4	-Growth habit:indeterminate -Twining tendency: semi- erect -Days to flowering:50 -Flower colour:purple -Seed colour: cream -Seed shape:kidney	Resistant to mosaic Virus
3.	Vuli -I	1984	ARI Ilonga	0-1500	Morogoro, Pwani, Tanga	1.8- 2.0	-Leaf texture: smooth -Growth habit:determinate -Twining tendency: erect -Flower colour:purple -Seed colour: red -Seed shape:kidney	Resistant to mosaic virus and intermediately resistant to bacterial blight
4.	Vuli-2	2003	ARI Ilonga	Below 1500	Morogoro, Pwani, Tanga	2.0- 2.5	-Growth habit:determinate -Twining tendency: semi- trailing -Flower colour:purple -Seed colour: white/cream -Seed shape:kidney	Moderately susceptible to pests Resistant to, Bacterial blight, Cowpea Mosaic Virus
5.	VULI- 5AR	2012	ARI-Ilonga	0 - 1500	Low to Medium Altitude	1.5 – 2t/ha	Maturity: 81 – 86 days	Tolerant to Alectra vogelii weed
6.	VULI- 6AR	2012	ARI-Ilonga	0 - 1500	Low to Medium Altitude	1.5 – 2t/ha	Maturity: 81 – 86 days	Tolerant to Alectra vogelii weed

7.	Vuli-3	2014	ARI-Ilonga	0 - 1500	Low to Medium Altitude	1.1		Torelant to Alectra vogelii weed
8.	Vuli-4	2014	ARI-Ilonga	0 - 1500	Low to Medium Altitude	1.1		Torelant to Alectra vogelii weed

Species: Green gram (*Phaseolus aureus* Roxb)

S/No.	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Nuru	1978	ARI Ilonga	0-1350	Morogoro, Pwani, Mtwara, Lindi	1.5	-Growth habit: determinate -Plant height (cm): 14-66 -Days to flowering:50 -Flower colour:purple -Pod colour at maturity: black -Seed shape:rhomboid -Testa texture:smooth	Resistant to mosaic virus and intermediately resistant to bacterial blight
2.	Imara	1982	ARI Ilonga	0-1350	Morogoro, Pwani, Mtwara, Lindi	1.5	-Growth habit: semi-prostate -Plant height (cm): 42 -Flower colour:purple -Pod colour at maturity: brown -Seed shape:rhomboid -Testa texture:smooth -Seed size: Large than Nuru	Resistant to mosaic virus and moderately resistant to bacterial blight. Wide adaptability

Species: Pigeon pea (*Cajanus cajan*)

S/No.	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (Tons/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Kombo	1999	ARI Ilonga	<1500	Morogoro, Pwani, Mtwara	4.0 (grain) and 10.0	-Growth habit:compact -Plant height (cm): 100	Early maturing variety

						(green pods)	<ul style="list-style-type: none"> -Days to flowering:65 (under optimum temp. 20-24⁰C) -Base flower colour: red (exterior) -Second flower colour:orange (interior) -Duration of flowering: synchronous -Pod colour: green with slight stripes -Seed colour pattern: mottled -Seed eye colour:brown -Base seed colour: white (cream) -Seed second colour: brown 	
2.	Mali	2002	ARI Ilonga	500-1500	Morogoro, Pwani, Tanga,Manyara	1.0 – 3.0	<ul style="list-style-type: none"> -Growth habit:compact to semi-erect -Growth habit:compact -Leaf: large and green -Plant height (cm): 100 -Days to flowering:113-130 -Flower: ivory-coloured and do not open fully -Pods: green with purple streaks and are borne in clusters at the branch terminals 	Resistant to fusarium wilt. Has desirable seed and consumer acceptability. Tolerant to insect pest and drought.
3.	Tumia	2003	ARI Ilonga	Below 1500	Morogoro, Pwani,Manyara		<ul style="list-style-type: none"> -Growth habit:compact and semi erect - Leaf colour large green leaf Flower colour: ivory 	It is susceptible to Fusarium wilt

							coloured. - Pod colour:the pods are green and very broad, and are borne in clusters at the branch terminals	
4.	Kiboko	2014	ARI Ilonga	600 - 1600	Medium Altitude	1.8 – 3.4		Resistant to Fusarium wilt
5.	Ilonga-10-1M	2014	ARI Ilonga	400 - 1800	Medium Altitude	1.9		Resistant to Fusarium wilt
6.	Ilonga-10-2M	2014	ARI Ilonga	400 - 1800	Medium Altitude	2.2		Resistant to Fusarium wilt
7.	Karatu-1	2014	ARI Ilonga	600 - 1600	Medium Altitude	1.3 - 1.4		Resistant to Fusarium wilt

Species: Ground nut (*Arachis hypogaeae* L.)

S/No.	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Red Mwitunde	1976	ARI Naliende	< 1500	Morogoro, Pwani, Mtwara, Lindi	0.1-1.7	-Days to maturity: 120	May suffer from sprouting if late rained during harvest or if lifting is delayed.
2.	Nyota (Span cross)	1983	ARI Naliende	< 1500	Mtwara, Lindi, Morogoro, Pwani, Tanga	1.2	-Stem branching:sequential -Stem hairiness:scarce -Laateral branches habbit:non distichous	Tolerant to <i>Cercospora</i> leaf spots

							<ul style="list-style-type: none"> -Leaf colour:light green -Leaflet shape:cunoate -Leaflet hairiness:sparce and short -Length of reproductive branch:short -Flower colour: yellow -Days to 50 % flowering:38 -Pod break:slight -Pod constriction:slight -Seed colour:small -Growth habbit: small seeds light 	
3.	Johari	1985	ARI Naliendele	< 1500	Mtwara, Lindi, Morogoro, Tanga,	1.3	<ul style="list-style-type: none"> -Leaf colour:dark green -Leaflet shape:cunoate -Flower colour: yellow -Days to 50 % flowering:45 -Pod break:deep -Pod constriction: moderate -Seed colour: tan -Growth habbit:decumbent -Plant colour:dark green 	Resistant to <i>Cercospora</i> leaf spot. Has seed dormancy.
4.	Pendo 98	1998	ARI Naliendele	< 1500	Mtwara, Lindi,	1.5	<ul style="list-style-type: none"> -Lateral branches 	The seed exhibits

	(Spanish)						<ul style="list-style-type: none"> habbit: erect -Leaf colour: light green -Days to 50 % flowering: 27-30 -Pod break: incnspicuous -Pod constriction:not marked -Seed colour: tan (monochrome) -Growth habbit: erect 	no seed dormancy. Has better shelling % and 100 seed weight than Sawia (Virginia)
5.	Sawia 98 (Virginia)	1998	ARI Naliendele	< 1500	Mtwara, Lindi, Morogoro, Pwani, Tanga	1.5	<ul style="list-style-type: none"> -Lateral branches habbit: erect -Leaf colour: dark green -Length of reproductive branch:- -Flower colour: -Days to 50 % flowering: 30-32 -Pod break: absent or very incnspicuous -Pod constriction:absent or very shallow -Seed colour: tan (monochrome) -Growth habbit: semi-erect 	The seed exhibits seed dormancy. Has less shelling % and 100 seed weight compared to Pendo 98
6.	Naliendele-09	2009	ARI-Naliendele	0-1500	Mtwara, Lindi, Pwani, Morogoro, Dodoma, Tanga, Iringa	Over 1 T/ha	<ul style="list-style-type: none"> -Mature in 110-120 days -Virginia varieties 	Tolerant to leaf spot

7.	Mhanje-09	2009	ARI-Naliende	0-1500	Mtwara, Lindi, Pwani, Morogoro, Dodoma Tanga, Iringa	Over 1 T/ha	-Mature in 110-120 days -Virginia varieties	Tolerant to leaf spot
8.	Masasi-09	2009	ARI-Naliende	0-1500	Mtwara, Lindi, Pwani, Morogoro, Dodoma,	Over 1 T/ha	-Mature in 110-120 days -Virginia varieties	Tolerant to leaf spot
9.	Nachingwea-09	2009	ARI-Naliende	0-1500	Mtwara, Lindi, Pwani, Morogoro, Dodoma	Over 1 T/ha	-Mature in 110-120 days -Virginia varieties	Tolerant to leaf spot
10.	Mangaka-09	2009	ARI-Naliende	0-1500	Mtwara, Lindi, Pwani, Morogoro, Dodoma	Over 1 T/ha	-Mature in 110-120 days -Virginia varieties	Tolerant to leaf spot
11.	NACHI 2015	2015	ARI-Naliende	0-1500	Low to Medium Altitude	1.1 – 2.0		Tolerant to groundnut rosette
12.	KUCHELE 2015	2015	ARI-Naliende	0-1500	Low to Medium Altitude	1.2		Tolerant to groundnut rosette
13.	NARINUT 2015	2015	ARI-Naliende	0-1500	Low to Medium Altitude	1.3		Tolerant to groundnut rosette and brown seed color
14.	NALIENDELE 2016	2018	ARI-Naliende	0-1500	Low to Medium Altitude	2		Tolerant to rosette disease. High yielding.
15.	TANZANUT 2016	2018	ARI-Naliende	0-1500	Low to Medium Altitude	2		Tolerant to rosette disease. High yielding.
16.	MTWARANUT 2016	2018	ARI-Naliende	0-1500	Low to Medium Altitude	2		Tolerant to rosette disease. High yielding.
17.	SC Orion	2019	Klein Kaoo Seed Marketing Zimbabwe				Maturity: 130 days	
18.	Shinje	2019	Seed Co Zambia				Maturity: 130 days	

Species: Sesame (*Sesamum indicum* L.)

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (Tons/Ha)	Distinctive characters	Special attributes/Disease rection
1.	Naliendele 92	1992	ARI Naliendele	< 1500	Mtwara, Lindi, Morogoro, Pwani	1.2	-Has basal, compact branching -Heavy leaf shedding at maturity	Susceptible to bacterial blight
2.	Zawadi 94	1994	ARI Naliendele	Up to 1500	Mtwara, Lindi, Morogoro, Pwani	1.0	-Has basal, profuse branching -Capsules turn from green to purple at maturity -Dull white seed, however if harvested during prolonged rains the colour changes to brown	Tolerant to leaf spots <i>Cercoseptoria sesame</i> , stem rot and <i>Fusarium</i> spp
3.	Ziada 94	1994	ARI Naliendele	Up to 1500	Mtwara, Lindi, Morogoro, Pwani	1.0	-Late maturing plant (120-130 days) - Plant colour:light green -Branching: has profuse branching -Seed colour:white-brown bold seeds but change to cream white if harvested in prolonged rains	Tolerant to leaf spots <i>Cercoseptoria sesami</i> Good oil content: 56.87 %
4.	Lindi 02	2006	ARI Naliendele	Up to 1500	Mtwara, Lindi, Morogoro, Pwani	1.2	- Branching:has basal, compact branching -Capsules size: long capsules, 2-3 carpels within the same plant - Seed colour:very white seeds	Tolerant to leaf spots, <i>Cercoseptoria sesame</i> , stem rot, and <i>Fusarium</i> spp. Susceptible to Flea beetles, (<i>Alocyphe bimaculate</i>)

								Good oil content: 55.61 %
5.	Mtondo 2013	2014	ARI Naliendele	Up to 1500		1.3		Tolerant to leaf spot

Species: Soya Bean [*Glycine max* (L.) Merr.]

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (Tons/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Bossier	1990's		800-2000	Areas growing soya bean			
2.	Soya Uyole-1	2002	ARI- Uyole	1000-1800	Mbeya, Iringa, Ruvuma, Rukwa	1.5-3.0	- Growth habit: plant has up-right growth habit - Leaf colour: has green leaf colour with hairy texture - Pod colour: pod has cream/brownish colour at maturity - Seed shape: seed has short plump shape, - Testa colour: cream - Helium colour: brown	Does not lodge and shatter
3.	Soya Uyole-3	2010	ARI-Uyole	800-1800	Mbeya, Iringa, Ruvuma, Rukwa, Kilimanjaro, Morogoro	2-3	Maturity: 1000 days	Tolerant to leaf rust, early maturing
4.	Uyole Soya 4	2013	ARI Uyole	800-2000	Mbeya, Iringa, Ruvuma, Rukwa, Kilimanjaro, Morogoro,	2		Tolerant to leaf rust, early maturing

					Sumbawanga			
5.	Sc Semeki	2019	SeedCo Tanzania Ltd	500-1600	Morogoro, Iringa, Mbeya Ruvuma, Rukwa, Tabora, Kigoma, Mwanza, Shinyanga, Manyara, Dodoma			High seed yield stability and good disease tolerance package to soybean frog eye leaf spot and red leaf blotch
6.	Sc Signal	2019	SeedCo Tanzania Ltd		Morogoro, Iringa, Mbeya Ruvuma, Rukwa, Tabora, Kigoma, Mwanza, Shinyanga, Manyara, Dodoma			High seed yield stability and good disease tolerance package to soybean frog eye leaf spot and red leaf blotch
7.	Sc Saxon	2019	SeedCo Tanzania Ltd		Morogoro, Iringa, Mbeya Ruvuma, Rukwa, Tabora, Kigoma, Mwanza, Shinyanga, Manyara, Dodoma			High seed yield stability and good disease tolerance package to soybean frog eye leaf spot and red leaf blotch
8.	Lundi	2019	Klein Karoo Seed Marketing Zimbabwe				Maturity: 131	
9.	Mwenezi	2019	Klein Karoo Seed Marketing Zimbabwe				Maturity: 116	

Species: Chickpeas (*Cicer arietinum* L.)

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (Tons/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Mwanza 1	2011	ARI-Ukiriguru	250-1600	Mwanza Kagera Tabora Shinyanga	2-4	Maturity: 90-100 days	Resistant to drought
2.	Mwanza 2	2011	ARI-Ukiriguru	250-1600	Mwanza Kagera Tabora Shinyanga	2-4	Maturity: 90-100 days	Resistant to drought
3.	Ukiriguru 1	2011	ARI-Ukiriguru	250-1600	Mwanza Kagera Tabora Shinyanga	2-4	Maturity: 90-100 days	Resistant to drought
4.	Mwangaza	2011	ARI-Ukiriguru	250-1600	Mwanza Kagera Tabora Shinyanga	2-4	Maturity: 90-100 days	Resistant to drought

Species: Sweet potatoes [*Ipomea batatas* (L.) Poir.]

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Simama	2000	ARI Ukiriguru	0-2000	Mwanza, Kagera, Shinyanga, Tabora	10.0- 20.0	-Plant type: Semi-compact -Vine predominant mature colour: Green -Vine tip pubescence: None -Mature leaf shape: Lobed	Moderately resistant to sweet potato feathery mottle virus, sweet potato sunken vein

							<ul style="list-style-type: none"> -Leaf shape of mature lobe: Elliptic -Storage root shape: Elliptic -Storage root skin colour (predominant): cream Storage root flesh colour (predominant): cream -Storage root arrangements: closed cluster 	virus and sweet potato mild mottle virus. Moderately resistant to weevils.
2.	Vumilia	2000	ARI Ukiriguru	800-2000	Mwanza, Kagera, Shinyanga, Tabora	10.0-20.0	<ul style="list-style-type: none"> -Plant type: Spreading -Vine predominant mature colour: Green -Vine tip pubescence: Sparsed -Mature leaf shape: Lobed - Leaf shape of mature lobe: Elliptic -Storage root shape: Oblong -Storage root skin colour (predominant): Cream -Storage root flesh colour (predominant): Cream -Storage root arrangements: Closed cluster 	Moderately resistant to sweet potato feathery mottle virus, sweet potato sunken vein virus and sweet potato mild mottle virus. Moderately resistant to weevils.
3.	Sinia	2000	ARI Ukiriguru	800-2000	Mwanza, Kagera, Shinyanga, Tabora	10.0-20.0	<ul style="list-style-type: none"> -Plant type: Spreading -Vine predominant mature colour: Mostly purple -Vine tip pubescence: Sparse -Mature leaf shape: Lobed -Mature leaf shape of mature lobe: Semi-elliptic -Storage root shape: Long elliptic -Storage root skin colour (predominant): Purple -- Storage root flesh colour 	Moderately resistant to sweet potato feathery mottle virus, sweet potato sunken vein virus and sweet potato mild mottle virus. Moderately resistant to weevils.

							(predominant): Orange -Storage root arrangements: Open cluster	
4.	Mavuno	2000	ARI Ukiriguru	800-2000	Mwanza, Kagera, Shinyanga, Tabora	10.0- 25.0	-Plant type: Spreading Vine predominant mature colour: Green -Vine tip pubescence: None -Mature leaf shape: Cordate -Leaf shape of mature lobe: Teeth -Storage root shape: Elliptic -Storage root skin colour (predominant): Cream - -Storage root flesh colour (predominant): Cream -Storage root arrangements: Closed cluster	Moderately resistant to sweet potato feathery mottle virus, sweet potato sunken vein virus and sweet potato mild mottle virus. Moderately resistant to weevils.
5.	Jitihada	2000	ARI Ukiriguru	0-2000	Mwanza, Kagera, Shinyanga, Tabora	10.0- 25.0	-Plant type: Semi-compact -Vine predominant mature colour: Green -Vine tip pubescence: Moderate -Mature leaf shape: Lobed - Leaf shape of mature lobe: Linear (narrow) -Storage root shape: Oblong -Storage root skin colour (predominant): White --- Storage root flesh colour (predominant): white -Storage root arrangements: open cluster	Moderately resistant to sweet potato feathery mottle virus, sweet potato sunken vein virus, and sweet potato mild mottle virus. Moderately resistant to weevils.

6.	Ukerewe	2002	ARI Kibaha	< 1000	Mwanza, Kagera, Shinyanga, Tabora	9.0	-Plant type: Spreading -Vine predominant mature colour: Green -Vine tip pubescence: None -Mature leaf shape: Lobed -Mature leaf shape of mature lobe:Semi- elliptic -Storage root shape: Long elliptic -Storage root skin colour (predominant): Purple -- Storage root flesh colour (predominant): Cream -Storage root arrangements: very dispersed	Moderately resistant to sweet potato feathery mottle virus, sweet potato sunken vein virus and sweet potato mild mottle virus. Moderately resistant to weevils.
7.	Mataya	2011	ARI-Kibaha	0-1000	-Pwani Morogoro	12-13	Maturity: 4 months	It has high content of Vitamin A (Beta-carotene)
8.	Kiegea	2011	ARI Kibaha	0-1000	-Pwani Morogoro	12-13	Maturity: 4 months	It has high content of Vitamin A (Beta-carotene)
9.	Polista	2013	ARI – Ukiriguru	800 - 1500	All areas growing sweetpotatoes	22	Maturity: 120 days	Drought tolerant
10.	Kakamega	2013	ARI – Ukiriguru	800 - 1500	All areas growing sweetpotatoes	17	Maturity: 120 days	Drought tolerant
11.	Mazao	2013	ARI – Ukiriguru	800 - 1500	All areas growing sweetpotatoes	22	Maturity: 120 days	Drought tolerant
12.	Mlezi	2013	ARI – Ukiriguru	800 - 1500	All areas growing sweetpotatoes	16	Maturity: 120 days	Drought tolerant
13.	Mkulima	2017	ARI – Ukiriguru	793-1549	All areas growing sweetpotatoes	18.3		High yield, drought resistance and early maturity

14.	Kabode	2017	ARI – Ukiriguru	794-1549	All areas growing sweetpotatoes	14.97		Orange fleshed, precursor of Vitamin A, High yielding, Tolerant to pest and diseases
15.	Ukiriguru Lishe 1	2017	ARI – Ukiriguru	795-1549	All areas growing sweetpotatoes	16.2		Beta carotene a precursor of Vitamin A, High yielding and early maturity
16.	TARI-SP1	2020	Tanzania Agricultural Research Institute (TARI)					-High dry matter content -Rich in beta-carotene a precursor of Vitamin A -Moderate yielding ability -Moderate resistance to weevil (<i>Cylas</i> spp) and SPVD
17.	TARI-SP2	2020	Tanzania Agricultural Research Institute (TARI)					-High dry matter content -Rich in beta-carotene a precursor of Vitamin A -Moderate yielding ability -Moderate resistance to weevil (<i>Cylas</i> spp) and SPVD

18.	TARI-SP3	2020	Tanzania Agricultural Research Institute (TARI)					<ul style="list-style-type: none"> -High dry matter content -Rich in beta-carotene a precursor of Vitamin A -Moderate yielding ability -Moderate resistance to weevil (<i>Cylas</i> spp) and SPVD
19.	TARI-SP4	2020	Tanzania Agricultural Research Institute (TARI)					<ul style="list-style-type: none"> -High dry matter content -Rich in beta-carotene a precursor of Vitamin A -Moderate yielding ability -Moderate resistance to weevil (<i>Cylas</i> spp) and SPVD
20.	TARI-SP5	2020	Tanzania Agricultural Research Institute (TARI)					<ul style="list-style-type: none"> -High dry matter content -Rich in beta-carotene a precursor of Vitamin A -Moderate yielding ability -Moderate resistance to weevil (<i>Cylas</i> spp) and SPVD

21.	TARI-SP6	2020	Tanzania Agricultural Reserch Institute (TARI)					
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Species: Cassava (*Manihot* spp.)

S/No	Variety	Year of release	Owner(s)/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Kibaha	2003	SRI Kibaha	0-1000	Pwani, Morogoro, Lindi, Mtwara, Tanga	30	- Outer skin root colour: dark brown -Inner skin root colour: cream - Ground storability: 12-15 months -Time of root biodegradation: starts after 6 day from harvesting	Resistant to drought, moderate resistant to Cassava Mottle Virus and Cassava Brown spot diseases Resistant to Cassava Green Mottle pest Ecological adaptability: Humid sub-humid (coastal areas) tested for more than 15 years
2.	Naliendele	2003	SRI Kibaha	0-1000	Pwani, Morogoro, Lindi, Mtwara, Tanga	12	-Outer skin root colour: Brown -Inner skin root colour: purple -Ground storability: 12-15 months -Time to root biodegradation: starts after 3 day from harvesting	Ecological adaptability: Humid sub-humid (coastal areas) tested for more than 5 years
3.	Mumba	2003	SRI Kibaha	0-1000	Pwani,	29	-Outer skin root colour:	Moderate

					Morogoro, Lindi, Mtwara,Tanga		<p>brown</p> <p>-Inner skin root colour: cream</p> <p>-Ground storability: 12-15 months</p> <p>-Time to root biodegradation: starts after 4 day from harvesting</p>	<p>resistant to drought, Cassava mottle Disease and Cassava Brown spot disease, Resistant to Cassava Green Mite pest</p> <p>Ecological adaptability: Semi-arid (Hombolo) tested for 6 years</p>
4.	Kiroba	2004	SRI Kibaha	0-1400	Low to Medium	26	<p>-Outer skin root colour: dark brown</p> <p>-Inner skin root colour: purple</p> <p>-Ground storability: 10-12 months</p> <p>-Time to root biodegradation: starts after 4 day from harvesting</p>	<p>Ecological adaptability: Humid sub-humid (coastal areas)</p> <p>High yielding variety</p>
5.	Hombolo 95	2004	SRI Kibaha	0-1000	Pwani, Morogoro, Lindi, Mtwara, Tanga	39	<p>-Outer skin root colour: brown</p> <p>-Inner skin root colour:cream</p> <p>-Ground storability:12-15 months</p> <p>-Time to root biodegradation: starts after 6 days from harvesting</p>	<p>Resistant to CMD, CBSD, CGM and drought</p> <p>Ecological adaptability: Semi-arid (Hombolo) tested for 5 years</p>
6.	Rangi Mbili	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga,Mara, Kigoma,	16-23		<p>-Resistant to cassava Mosaic (CMD)</p> <p>-Cassava Brown</p>

					Tabora			Streak disease (CBSD)
7.	Meremeta	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga, Mara, Kigoma, Tabora	16-23		Resistant to CMD and CBSD
8.	Mkombozi	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga, Mara, Kigoma, Tabora	16-23		Resistant to CMD and CBSD
9.	Belinde	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga, Mara, Kigoma, Tabora	16-23		Resistant to CMD and CBSD
10	Kasala	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga, Mara, Kigoma, Tabora	16-23		Resistant to CMD and CBSD
11	Suma	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga, Mara, Kigoma, Tabora	16-23		Resistant to CMD and CBSD
12	Kyaka	2009	ARI-Ukiriguru	900-1800	Mwanza, Kagera, Shinyanga, Mara, Kigoma, Tabora	16-23		Resistant to CMD and CBSD
13	Pwani	2012	ARI Naliendele	0-600	Eastern Zone	50.8		Resistant to Cassava Mosaic Disease (CMD)

								and Cassava Brown Streak Disease (CBSD)
14	Mkumba	2012	ARI Naliendele	0-1400	Low to Medium	20.6		-Resistant to Cassava Mosaic Disease CMD) and Cassava Brown Streak Disease (CBSD) -High yielding variety
15	Makutupora	2012	ARI Naliendele	700-1500	Eastern and Central Zones	30.3		Resistant to Cassava Mosaic Disease CMD) and Cassava Brown Streak Disease (CBSD)
16	Dodoma	2012	ARI Naliendele	700-1500	Eastern and Central Zones	36		Resistant to Cassava Mosaic Disease CMD) and Cassava Brown Streak Disease (CBSD)
17	Chereko	2014	ARI Kibaha	0-750	Eastern and Central Zones	20.6		Resistant to Cassava Mosaic Disease CMD) and Cassava Brown Streak Disease (CBSD)
18	Kizimbani	2014	ARI Kibaha	0-1400	Low to Medium	15.3		Resistant to Cassava Mosaic Disease CMD) and Cassava Brown Streak Disease (CBSD)
19	Mkuranga-1	2014	ARI Kibaha	0-1400	Low to Medium	21.6		Resistant to Cassava Mosaic

								Disease CMD) and Cassava Brown Streak Disease (CBSD)
20	Kipusa	2014	ARI Kibaha	0-750	Eastern and Central Zones	18.6		Resistant to Cassava Mosaic Disease CMD) and Cassava Brown Streak Disease (CBSD)
21	TARI-CASS1	2020	Tanzania Agricultural Research Institute(TARI)	100-1400	Low to Medium			-High yield (30.7 t/ha) -Tolerance to Cassava Brown Streak Disease and Cassava Mosaic Disease -Tolerance to CBSD Necrosis -High Dry Matter Content
22	TARI-CASS2	2020	Tanzania Agricultural Research Institute(TARI)	100-1400	Low to Medium			-High yield (35.3t/ha) -Tolerance to Cassava Brown Streak Disease and Cassava Mosaic Disease -Tolerance to CBSD Necrosis -High Dry Matter Content
23	TARI-CASS3	2020	Tanzania Agricultural Research Institute(TARI)	100-1400	Low to Medium			-High yield (39.4t/ha) -Tolerance to Cassava Brown Streak Disease and

								Cassava Mosaic Disease -Tolerance to CBSD Necrosis -High Dry Matter Content
24	TARI-CASS4	2020	Tanzania Agricultural Research Institute(TARI)	100-1400	Low to Medium			-High yield (28.2t/ha) -Tolerance to Cassava Brown Streak Disease and Cassava Mosaic Disease -Tolerance to CBSD Necrosis -High Dry Matter Content
25	TARI-CASS5	2020	Tanzania Agricultural Research Institute(TARI)	100-1400	Low to Medium			-High yield (30.9t/ha) -Tolerance to Cassava Brown Streak Disease and Cassava Mosaic Disease -Tolerance to CBSD Necrosis -High Dry Matter Content

Species: Sunflower (*Helianthus annus* L.)

S/No	Variety	Year of	Owner(s)/Maintainer	Optimal	Places	Grain	Distinctive characters	Special
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		release	and seed source	production altitude range (Masl)	recommended	yield (t/Ha)		attributes/Disease reaction
1.	Record	Before 1950's	ARI Ilonga	0-2000	Morogoro, Pwani, Dodoma, Singida, Iringa	1.0-2.0	-Days to maturity: 110-130 -Days to 50 % flowering: 35-45	Susceptible to sunflower rugose mosaic virus and sunflower yellow ringspot Oil content: 50%
2.	CRN 1435	1999	Monsanto South Africa	900-1500	Morogoro, Pwani, Dodoma, Singida, Iringa	2.0-2.5	-Leaf shape: Cordate -Depth of margin indentations: Intermediate -Blade altitude: Descending -Corolla colour: Yellow -Anther colour: Brown -Pericarp main colour: Black -Stripe colour: Gray -Has wide adaptation, good lodging resistance and stress tolerance	Resistant to <i>Septoria</i> , <i>Alternaria</i> spp, sunflower rugose mosaic virus and sunflower yellow ringspot
3.	PAN 7352	2002	Pannar Seed Co.	500-1500	Morogoro, Pwani, Dodoma, Singida, Iringa	1.5-2.5	-Leaf shape: Cordate -Depth of margin indentations: Medium -Blade altitude: Flat -Corolla colour: Yellow -Anther colour: Black -Pericarp main colour: Black -Stripe colour: White	Moderately resistant to <i>Septoria</i> , <i>Alternaria</i> spp, sunflower rugose mosaic virus and sunflower yellow ringspot Has excellent adaptation and stress tolerance,

								good lodging resistance
4.	Kenya Fedha	2006	Kenya Seed Co.Ltd	1500 - 2250	Morogoro, Pwani, Dodoma, Singida, Iringa	3.0 – 3.5	-Leaf shape: Flat -Depth of margin indentations: ---Deep to medium -Blade altitude: Scabrous -Corolla colour: Yellowish -Anther colour: Yellow -Pericarp main colour: Black -Stripe colour: Gray	Moderately resistant to <i>Septoria helianth</i> , <i>Altenaria</i> spp and Sunflower Viral Diseases -Has wide adaptation (from coastal to highlands), good lodging resistance and stress tolerance
5.	NSFH 36	2015	Sunflower Development Company Ltd (SDC)	100-1800	Morogoro, Pwani, Dodoma, Singida, Iringa, Sumbawanga, Rukwa, Kilimanjaro	3.4		Escape birds by bending characteristics and has oil content 40%
6.	NSFH 145	2015	Sunflower Development Company Ltd (SDC)	100-1800	Morogoro, Pwani, Dodoma, Singida, Iringa, Sumbawanga, Rukwa, Kilimanjaro	3.6		Escape birds by bending characteristics and has oil content 40%

7.	AGUARA 4	2015	Advanta Seed Company Ltd	100-2000	Morogoro, Pwani, Dodoma, Singida, Iringa, Sumbawanga, Rukwa, Kilimanjaro	2.7		Oil content 46%
8.	HYSUN 33	2015	Advanta Seed Company Ltd	100-2000	Morogoro, Pwani, Dodoma, Singida, Iringa, Sumbawanga, Rukwa, Kilimanjaro	2.5		Oil content 41% and is tolerant to powdery mildew
9.	ANCILA	2020	East African Seed(T) Company Limited	100-1800	Low to High			-High Mono-saturated Fats(MUFA) -Early maturity -High oil content (38.7%) -High yield potential
10	MICHEL	2020	East African Seed(T) Company Limited	100-1800	Low to High			-High Mono-saturated Fats(MUFA) -Early maturity -High oil content (39.1%) -High yield potential
11	SOLEADO	2020	East African Seed(T) Company Limited	100-1800	Low to High			-High Mono-saturated Fats(MUFA) -Early maturity -High oil content

								(39.7%) -High yield potential
12	ARCHEO	2020	East African Seed(T) Company Limited	100-1800	Low to High			-High Mono-saturated Fats(MUFA) -Early maturity -High oil content (40.6%) -High yield potential
13	SUPERSUN 64	2020	Silversands Ndolela LTd	200-1600	Low to High			-Medium early maturing variety 95-120 days -High yield potential (2-3t/ha) -High oil content -Excellent tolerance to Powdery Medium and head rot -High lodging resistance -High tolerance of drought
14	SUPERSUN 66	2020	Silversands Ndolela LTd	200-1600	Low to High			-Medium early maturing variety 95-120 days -High yield potential (2-3t/ha) -High oil content -Excellent tolerance to Powdery Medium and head rot -High lodging resistance

								-High tolerance of drought
15	TARI-ILO 2019	2020	Tanzania Agricultural Research Institute (TARI)	0-2000	Low to High			-High yielding OPV varieties (1.5-2t/ha) -High oil content (35%) -Early maturity
16	AGUARA 6	2020	Advanta Seed Company	0-1500	Low to Medium			-High yielding -High oil content

Species: Tomato (*Lycopersicon lycopersicum* Mill.)

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Tengeru 97	1997	HORTI-Tengeru	400-1500	Arusha, Manyara, Kilimanjaro, Morogoro, Tanga	60-80	-Growth habit: indeterminate -Day to 50 % flowering: 31 days from transplanting -Days to 50 % fruiting: 47 days from transplanting -Leaf shape: ovate to lanceolate in outline interrupted-pinnate to twice pinnate -Fruit colour:red -Firmness:very firm -Plant height: 95-100	Resistant to root-knot nematodes, tomato mosaic virus (ToMV) and <i>Fusarium</i> wilt. Tolerant to Tomato Yellow Leaf Curl Virus (TYLCV)
2.	Tanya	1997	HORTI-Tengeru	400-1500	Morogoro, Pwani, Dodoma, Singida, Iringa	40-60	-Growth habit: Determinate -Day to 50 % flowering: 30 days from transplanting -Days to 50 % fruiting: 45 days from transplanting	Susceptible to most common diseases of tomatoes

							-Leaf shape: ovate to lanceolate in outline interrupted-pinnate -Fruit colour:red -Firmness:very firm -Plant height: 45-50	
3.	Meru	2007	HORTI-Tengeru	500-1500	Arusha, Tanga, Kilimanajro, Manyara	60-100	-Growth habit: Indeterminate -Day to 50 % flowering: 24-27 days from transplating -Days to 50 % fruiting: -Leaf shape: -Fruit colour:red -Firmness:firm -Plant height: 45-50	Resistant to <i>M.incognita</i> , <i>M.javanica</i> , <i>M.hapla</i> , Powdery mildew and late blight Agency respo
4.	Kiboko	2008	HORTI Tengeru	500-1500	Morogoro, Pwani, Dodoma, Singida, Iringa	50 - 100	-Maturity: 90 – 100 days -Resistant to late blight	
5.	Duruti & Tengeru 2010	2011	HORTI Tengeru	500-1700	Tomato grown areas	40-90	Maturity 85-100 days	Resistant to late and early blight disease
6.	Tengeru 2010	2011	HORTI Tengeru	500-1700	Arusha, Tanga, Kilimanjaro, Manyara, Iringa, Mbeya	40-90		Resistant to late and early blight disease
Species: Ethiopian mustard (<i>Brasica carinata</i>)								
S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction

				range (Masl)				
1.	Rungwe	2011	HORTI-Tengeru	0-1700	Mbeya Iringa Rukwa Arusha Kilimanjaro	40-80	Maturity 21-28 days	Long harvest period, Late flowering
2.	Arumeru	2011	HORTI-Tengeru	0-1700	Mbeya Iringa Rukwa Arusha Kilimanjaro	40-80	Maturity 21-28 days	Long harvest period, Late flowering

Species: African Egg plant (*Solanum aethiopicum*)

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	DB 3	2010	HORTI-Tengeru	100-1700	Iringa, Dodoma, Pwani, Arusha, Kilimanjaro, Tanga	40-90	Maturity 45-60 days and harvesting can continue for over 10 weeks	Sweet taste, High market value

Species: African Nightshade

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Olevolosi	2011	HORTI-Tengeru	100-1700	Arusha Kilimanjaro	50-60	Maturity: 40 days to first picking and can continue	Sweet taste, Resistant to

					Pwani Tanga Morogoro		for 6-8 weeks	Fusarium wilt
2.	Nduruma	2011	HORTI-Tengeru	100-1700	Arusha Kilimanjaro Pwani Tanga Morogoro	50-60	Maturity: 40 days to first picking and can continue for 6-8 weeks	Sweet taste, Resistant to Fusarium wilt
Species: Amaranth (<i>Amaranthus cruentus</i>)								
S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	Madiira 1	2011	HORTI-Tengeru	0-1700	Arusha Kilimanjaro	40-80	Maturity: 40-50 days to first picking and for repeated harvesting, harvesting can continue for 10 weeks or more	Long harvesting period, High market value
2.	Madiira 2	2011	HORTI-Tengeru	0-1700	Arusha Kilimanjaro	30-50	Maturity: 28 days to first picking and for repeated harvesting, harvesting can continue for 6-8 weeks.	Long harvesting

Species: Coffee (*Coffea arabica*)

S/No	Variety	Year of release	Owner(s)/Maintainer seed source	Optimal production altitude range (Masl)	Places recommended	Dry bean yield (t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	N 39-1	2005	TaCRI	900-1800	Arusha, Kilimanjaro, Mbeya, Iringa,	2.5- 3.0	-Plant habit: shrub -Plant height: tall >170 cm -Overall appearance:	Resistant to Coffee Berry Diseases

					Ruvuma, Mara, Kagera		pyramidal -Vegetable development: sympodial -Branching habit (primary): many with many secondary and tertiary -Angle of insertion of primary branches: semi-erect -Young leaf colour: bronze -Inflorescence position: axillary -Number of flowers per axil: 17 -Fruit colour: red -Fruit shape: oblong -Seed colour: cream -Seed shape: elliptic	<i>(Colletotrichum kahawae)</i> , Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
2.	N 39-2	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5- 3.0	-Plant habit: shrub -Plant height: tall >165 cm -Overall appearance: pyramidal -Vegetable development: sympodial -Branching habit (primary): many with many secondary and tertiary -Angle of insertion of primary branches: semi-erect -Young leaf colour: bronze -Inflorescence position: axillary -Number of flowers per axil: 16 -Fruit colour: red -Fruit shape: roundish -Seed colour: cream -Seed shape: elliptic	Resistant to Coffee Berry Diseases <i>(Colletotrichum kahawae)</i> , Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size

3.	N 39-3	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5- 3.0	<ul style="list-style-type: none"> -Plant habit: shrub (distinct trunk) -Plant height: tall >170 cm -Overall appearance: pyramidal -Vegetable development: sympodial -Branching habit (primary): many with many secondary and tertiary -Angle of insertion of primary branches: semi-erect -Young leaf colour: bronze -Inflorescence position: axillary -Number of flowers per axil: absent -Fruit colour: red -Fruit shape: oblong -Seed colour: cream -Seed shape: elliptic 	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
4.	N 39-4	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5- 3.0	<ul style="list-style-type: none"> -Plant habit: shrub -Plant height: tall >170 cm -Overall appearance: bushy -Vegetable development: sympodial -Branching habit (primary): many with many secondary and tertiary -Angle of insertion of primary branches: semi-erect -Young leaf colour: bronze -Inflorescence position: axillary -Number of flowers per axil: absent -Fruit colour: red -Fruit shape: roundish 	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size

							-Seed colour: cream -Seed shape: elliptic	
5.	N 39-5	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5- 3.0	Vegetable development: sympodial -Branching habit (primary): MMS &T -Angle of insertion of primary branches: semi-erect -Young leaf colour: greenish -Inflorescence position: axillary -Number of flowers per axil: 15 -Fruit colour: red -Fruit shape: obovate -Seed colour: cream -Seed shape: oblong	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
6.	N 39-6	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5- 3.0	Vegetable development: sympodial -Branching habit (primary): MMS &T -Angle of insertion of primary branches: horizontal -Young leaf colour: brownish -Inflorescence position: axillary -Number of flowers per axil: 19 -Fruit colour: red -Fruit shape: oblong -Seed colour: cream -Seed shape: oblong	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
7.	N 39-7	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma,	2.5- 3.0	Vegetable development: sympodial -Branching habit (primary): MMS &T	Resistant to Coffee Berry Diseases (<i>Colletotrichum</i>

					Mara, Kagera		<ul style="list-style-type: none"> -Angle of insertion of primary branches: semi-erect -Young leaf colour: bronze -Inflorescence position: axillary -Number of flowers per axil: 9 -Fruit colour: red purple -Fruit shape: roundish -Seed colour: cream -Seed shape: oblong 	<i>kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
8.	KP 423-1	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5-3.0	<ul style="list-style-type: none"> Vegetable development: sympodial -Branching habit (primary): MMS &T -Angle of insertion of primary branches: horizontal -Young leaf colour: brownish -Inflorescence position: axillary -Number of flowers per axil: 14 -Fruit colour: red -Fruit shape: roundish -Seed colour: cream -Seed shape: oblong 	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
9.	KP 423-3	2005	TaCRI	900-1800	Arusha, Kilimanajro, Mbeya, Iringa, Ruvuma, Mara, Kagera	2.5-3.0	<ul style="list-style-type: none"> Vegetable development: sympodial -Branching habit (primary): MMS &T -Angle of insertion of primary branches: horizontal -Young leaf colour: greenish -Inflorescence position: axillary -Number of flowers per axil: 	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size

							9 -Fruit colour: red -Fruit shape: oblong -Seed colour: cream -Seed shape: elliptic	
10.	Muleba 1	2011	TaCRI	900-1700	Kagera	2.6-3.1	- Maturity: First harvest: Two years after planting	-Resistant to Coffee Wilt Disease - It has a good coffee aroma
11.	Maruku 1	2011	TaCRI	900-1700		2.6-3.1	- Maturity: First harvest: Two years after planting	-Resistant to Coffee Wilt Disease - It has a good coffee aroma
12.	Bukoba 1	2011	TaCRI	900-1700		2.6-3.1	- Maturity: First harvest: Two years after planting	-Resistant to Coffee Wilt Disease - It has a good World market coffee aroma
13.	Maruku 2 (Robusta)	2011	TaCRI	900-1700		2.6-3.1	- Maturity: First harvest: Two years after planting	-Resistant to Coffee Wilt Disease - It has a good coffee aroma
14.	KP423-2 (Arabica)	2011	TaCRI	900-2200		2.8-3.2	- Maturity: First harvest: Two years after planting	-Resistant to Coffee Leaf Rust and Coffee Berry Disease - It has a good World market coffee aroma
15.	N39-8	2012	TaCRI	1000-1800		2.4-2.8	- Maturity: First harvest: Two years after planting	
16.	N39-9	2012	TaCRI	1000-1800		2.3-2.7	- Maturity: First harvest: Two years after planting	Resistant to Coffee Berry

								Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
17.	N39-10	2012	TaCRI	1000-1800		2.4-3.2		Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
18.	N39-11	2012	TaCRI	1000-1800		2.5-2.8	- Maturity: First harvest: Two years after planting	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size
19.	N39-12	2012	TaCRI	1000-1800		2.4-2.9	Maturity: First harvest: Two years after planting	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), Added advantage in bean size

20.	TaCRI1F	2013	TaCRI	1000-1800		4- t/ha	- Maturity: 240 days -It perform well in southern highland zone	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), -
21.	TaCRI3F	2013	TaCRI	1000-1800		3.5 t/ha	- Maturity 240 days -It performs well in southern highland zone	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>), -
22.	TaCRI4F	2013	TaCRI	1000-1800		3 t/ha	- Maturity 240 days -It perform well in nothern highland zone	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>),
23.	TaCRI6F	2013	TaCRI	1000-1800		4t/ha	- Maturity 240 days -t perform well in nothern highland zone	Resistant to Coffee Berry Diseases (<i>Colletotrichum kahawae</i>), Leaf rust (<i>Hemileia vastatrix</i>),

Species: Tobacco (*Nicotiana tabacum* L.)

S/No	Variety	Year of	Owner(s)/Maintainer	Optimal	Places	Grain	Distinctive characters	Special
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		release	and seed source	production altitude range (Masl)	recommended	yield (t/Ha)		attributes/Disease reaction
1.	PD4	1992	ARI Tumbi	1050-1500	Tabora, Shinyanga, Ruvuma	2.5	-Coleoptile hairiness: present -Leaf colour at maturity: dark green -Leaf colour at curing: greenish yellow -Leaf hairiness: present -Stem colour: dark green -Stem strength: strong -Plant hairiness: present -Plant height: 90-130 cm -Days to flowering: 59-69 -Flower colour: pink -Capsule colour at maturity: light brown -Seed colour: light brown	Moderately susceptible to root knot nematodes. Slightly susceptible to tobacco mosaic virus (TMV), frog-eye and <i>Alternaria</i>
2.	RG 17	2006	Tanzania Leaf Tobacco Company	900-1500	Tabora, Shinyanga, Ruvuma	0.112	-Coleoptile hairiness: present -Leaf colour at maturity: green -Leaf colour at curing: deep lemon -Leaf hairiness: 50 % -Stem colour: pale green -Stem strength: not very strong -Plant hairiness: 50 % -Plant height: 60 cm -Days to flowering: 70 days -Flower colour: white-pink or pinkish -Capsule colour at maturity: dark brown -Seed colour: dark brown	Moderately susceptible to root knot nematodes. Slightly susceptible to tobacco mosaic virus (TMV), frog-eye and <i>Alternaria</i>
3.	ULT F 10	2006	Tanzania Leaf Tobacco Company	900-1500	Tabora, Shinyanga,	0.154	-Coleoptile hairiness: present -Leaf colour at maturity: green	Moderately susceptible to root

					Ruvuma		<ul style="list-style-type: none"> -Leaf colour at curing: deep orange -Leaf hairiness: 80 % -Stem colour: pale green -Stem strength: not very strong -Plant hairiness: 80 % -Plant height: 70 cm -Days to flowering: 70 % -Flower colour: white-pink or pink -Capsule colour at maturity: dark brown -Seed colour: dark brown 	knot nematodes. Slightly susceptible to tobacco mosaic virus (TMV), frog-eye and <i>Alternaria</i>
4.	K 326	2006	Tanzania Leaf Tobacco Company	900-1500	Tabora, Shinyanga, Ruvuma	0.125	<ul style="list-style-type: none"> -Coleoptile hairiness: present -Leaf colour at maturity: green -Leaf colour at curing: deep orange -Leaf hairiness: 80 % -Stem colour: pale green -Stem strength: not very strong -Plant hairiness: 80 % -Plant height: 70 cm -Days to flowering: 70 % -Flower colour: white-pink or pink -Capsule colour at maturity: dark brown -Seed colour: dark brown 	Moderately susceptible to root knot nematodes. Slightly susceptible to tobacco mosaic virus (TMV), frog-eye and <i>Alternaria</i>
5.	CC26	2013	TORITA	900 - 1800		1.4 - 1.8t/ha	<ul style="list-style-type: none"> Marurity: 75 – 80 days 	<ul style="list-style-type: none"> -Resistant to Root knot nematodes -Resistant to lodging -Resistant to drought
6.	CC27	2013	TORITA	900 - 1800		1.4 - 1.8t/ha	<ul style="list-style-type: none"> Marurity: 75 – 80 days 	<ul style="list-style-type: none"> -Resistant to Root knot nematodes -Resistant to

								lodging -Resistant to drought
7.	CC35	2013	TORITA	900 - 1800		1.5 - 2t/ha	Marurity: 75 – 80 days	-Resistant to Root knot nematodes -Resistant to lodging -Resistant to drought
8.	KRK26	2013	TORITA	900 - 2000		1.5 - 2t/ha	Marurity: 75 – 80 days	-Resistant to Root-knot nematodes -Resistant to lodging -Resistant to drought
9.	DDV 10	2014	Dandeva Seed Services (T) Ltd	500 - 1950	Tobacco grown areas	2.3		-Resistant to root-knot nematode <i>Meloidogne incognita and Jamaica</i> -Resistant to lodging
10	DDV 42	2014	Dandeva Seed Services (T) Ltd	500 - 1950	Tobacco grown areas	2.3		Resistant to root-knot nematode <i>Meloidogyne incognita & javanica</i>
11	DDV 43	2014	Dandeva Seed Services (T) Ltd	500 - 1950	Tobacco grown areas	2.3		Resistant to root-knot nematode <i>Meloidogyne incognita & javanica</i>
12	CC 37	2018	TORITA	500-1950	Tobacco grown areas	3.5		Resistant to root-knot nematode <i>Meloidogne incognita and</i>

								<i>jamaica</i>
13	ULT 123	2018	TORITA	500-1950	Tobacco grown areas	3		Resistant to root-knot nematode <i>Meloidogne incognita</i> and <i>Jamaica</i> , high yielding, slowing ripening of leaves and disease resistant
14	PVH 2254	2018	TORITA	500-1950	Tobacco grown areas	3.5		Resistant to root-knot
15	PVH 2275	2018	TORITA	500-1950	Tobacco grown areas	3.5		Resistant to root-knot nematode (<i>Meloidogne incognita</i>) and <i>javanica</i> , TMV, Black Shank and <i>Fusarium wilt</i> , slow ripening of leaves
16	PVH 2259	2018	TORITA	500-1950	Tobacco grown areas	3.5		Resistant to root-knot (<i>Meloidogne incognita</i>) and ripening of leaves
17	TRD 17	2019	TORITA	250-1950	Ruvuma	3		Dark fire curing and high yielding

Species: Cashew (*Anacardium occidentale* L.)

S/No.	Variety	Year of release	Owner/Maintainance and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield (t/Ha)	Distinctive characters	Special alttributes/Disease reaction
1.	AC 1	2006	ARI Naliendele	0-800	Pwani,	36	-Brown flush	Resistant to

					Mtwara, Lindi		-Apple shape: cylindrical -Apple colour: orange -Nut shape: kidney -Flower colour: pink	Powdery mildew, Anthracnose, and Die back
2.	AC 4	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	59	-Red flush -Apple shape: cylindrical -Apple colour: orange -Nut size: Large -Nut apex orientation: slightly tend to bend (on either the left or right side) away from direction of suture	Resistant to Powdery mildew, Anthracnose, and Die back
3.	AC 4/17	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	16	-Nut apex: thin and relatively small-flattened -Dominantly thick bulging flanks starting from just near the lower end of the stylar scar and extend up to the upper shoulders, behind their side of suture -One side of the flank protrudes more than other side	Resistant to Powdery mildew, Anthracnose, and Die back
4.	AC 10	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	39	-Aged leaves turn reddish, the aged leaves colour resembles mature apple colour -Very loose nut attachment to cashew apples, some nuts detach when or before falling on ground	Resistant to Powdery mildew, Anthracnose, and Die back
5.	AC 10/129	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	67	-Brown flushes -Apple shape: cylindrical -Apple colour: yellow	Resistant to Powdery mildew, Anthracnose, and Die back
6.	AC	2006	ARI Naliendele	0-800	Pwani,	53	-Green flushes relatively	Resistant to

	10/220				Mtwara, Lindi		broad and large -Apple colour:yellow -Apple shape: conical	Powdery mildew, Anthracnose, and Die back
7.	AC 14	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	41	-Apple shape: long conical -Apple colour: orange -Pink/purple colouration that remain on nuts up to maturity	Resistant to Powdery mildew, Anthracnose, and Die back
8.	AC 22	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	36	-Growth habit:natural tendency of the stem to grow relatively upright, even in the case of grafted plant	Resistant to Powdery mildew, Anthracnose, and Die back
9.	AC 34	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	47	-Green flushes, which are relatiuvely narrow -Apple colour: yellow -Apple shape: round	Resistant to Powdery mildew, Anthracnose, and Die back
10.	AC 43	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	55	-Apple shape: cylindrical -Apple colour: red with entire dark red strips at harvesting maturity	Resistant to Powdery mildew, Anthracnose, and Die back
11.	AZA 2	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	49	-Growth habit: semi dwarf tree -Apple shape:conical -Apple colour: greenish yellow at harvesting maturity	Resistant to Powdery mildew, Anthracnose, and Die back
12.	AZA 17	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	47	-Apple shape: conical -Apple colour: yellow -Nut shape: elongated	Resistant to Powdery mildew, Anthracnose, and Die back
13.	AZA 17/79	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	14	-Apple colour:yellow -Apples shape: conical -Nut shape: flattened -Nut apex shape: round	
14.	AZA 17/156	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	62	-Apple colour:orange -Apple shape: round	Resistant to Powdery mildew,

								Anthracnose, and Die back
15.	AZA 17/158	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	14	-Dark brown flushes -Apples shape: Conical -Apple colour: yellow	Resistant to Powdery mildew, Anthracnose, and Die back
16.	AC 4/285	2006	ARI Naliendele	0-800	Pwani, Mtwara, Lindi	29	-Red (bright red) flushes, -Leaf shape: Obovate leaves -Apple colour: orange apples -Apple shape: Cylindrical	Resistant to Powdery mildew, Anthracnose, and Die back
17.	H 1	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg	
18.	H 2	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 1 (180 kernels), determined by number of kernels /0.45kg	
19.	H 3	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	
20.	H 4	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg	
21.	H 5	2014	ARI Naliendele	0-1000		10 kg/tree	Kernel quality: level 4 (320 kernels), determined by	

						after 5 years (first harvest)	number of kernels /0.45kg	
22.	H 6	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (320 kernels), determined by number of kernels /0.45kg	
23.	H 7	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg	
24.	H 8	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	
25.	H 9	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg	
26.	H 11	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 2 (210 kernels), determined by number of kernels /0.45kg	
27.	H 13	2014	ARI –Naliendele	0-1000		10 kg/tree after 5	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	

						years (first harvest)		
28.	H 14	2014	ARI -Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	
29.	H 15	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg	
30.	H 16	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	
31.	H 18	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	
32.	H 22	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg	
33.	H 23	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg	

						(first harvest)	
34.	H 25	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 3 (240 kernels), determined by number of kernels /0.45kg
35.	H 28	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 1 (180 kernels), determined by number of kernels /0.45kg
36.	H 29	2014	ARI -Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg
37.	H 30	2014	ARI Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 2 (210 kernels), determined by number of kernels /0.45kg
38.	H 31	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 4 (320 kernels), determined by number of kernels /0.45kg
39.	H 32	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first	Kernel quality: level 2 (210 kernels), determined by number of kernels /0.45kg

						harvest)		
40.	H 33	2014	ARI –Naliendele	0-1000		10 kg/tree after 5 years (first harvest)	Kernel quality: level 1 (180 kernels), determined by number of kernels /0.45kg	
41.	TDC1	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield, which is: 104 Kernels/kg and Kernels weght 9.59g -Edible part per nut 26.47%	
42.	TDC2	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield (102 Kernelss/kg and kernel weght of 9.78g) -Edible part per nut 27.67%	
43.	TDC3	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield (98 kernels/kg and kernel weght of10.28g) -Edible part per nut 27.67%	
44.	TDC4	2017	ARI -Naliendele	0- 1000		10 kg/tree after 5 years (first harvest)	High yield (103 kernels/kg with kernel weight of 9.72g) --Edible part per nut 25.65%	
45.	TDC7	2017	ARI -Naliendele	0- 1000		10 kg/tree after 5 years (first harvest)	Hiigh yield(98 kernels/kg with kernel weight of 10.18) --Edible part per nut 26.96%	

46.	TDC8	2017	ARI -Naliendele	0- 1000		10 kg/tree after 5 years (first harvest)	High yield(126 kernels/kg with kernel weight of 7.95) --Edible part per nut 27.5%
47.	TDC9	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield(101 kernels/kg with kernel weight of 9.86) --Edible part per nut 26.5%
48.	TDC10	2017	ARI -Naliendele	0- 1000		10 kg/tree after 5 years (first harvest)	High yield(87 kernels/kg with kernel weight of 11.56) --Edible part per nut 29.45%
49.	TDC12	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield (102 Kernelss/kg and kernel weght of 9.78g) -Edible part per nut 27.67%
50.	TDC13	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield(120 kernels/kg with kernel weight of 8.31) --Edible part per nut 28.65%
51.	TDC14	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield(124 kernels/kg with kernel weight of 8.06) --Edible part per nut 25.93%
52.	TDC15	2017	ARI -Naliendele	0 - 1000		10	High yield(91.0 kernels/kg

						kg/tree after 5 years (first harvest)	with kernel weight of 10.96) --Edible part per nut 25.09%	
53.	TDC16	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield(124 kernels/kg with kernel weight of 8.06) --Edible part per nut 25.93%	
54.	TDC22	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield(120 kernels/kg with kernel weight of 8.31) --Edible part per nut 28.32%	
55.	TDC23	2017	ARI -Naliendele	0- 1000		10 kg/tree after 5 years (first harvest)	High yield(123 kernels/kg with kernel weight of 8.12) --Edible part per nut 27.65%	
56.	TDC24	2017	ARI -Naliendele	0 - 1000		10 kg/tree after 5 years (first harvest)	High yield(116 kernels/kg with kernel weight of 8.60) --Edible part per nut 28.25%	

Species: Grape vine (*Vitis venifera L.*)

S/No.	Variety	Year of release	Owner/Maintainance and seed source	Optimal production altitude range	Places recommended	Fruit yield (t/ha)	Distinctive characters	Special attributes/Disease reaction
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				(Masl)				
1.	Makutupora Red	2007	Viticulture Research and Training Centre Makutupora	1050	Dodoma	10-15	Red colour when ripped	Adaptability to drought: highly adapted Transportability: good Uses: Red wine
2.	Chenin Nyeupe	2007	Viticulture Research and Training Centre Makutupora	1050	Dodoma	10-30	Produce green grapes when ripped	Fairly drought resistant Uses: White wine making

Species: Cotton (*Gossypium hirsutum L*)

S/No.	Variety	Year of release	Owner/Maintainance and seed source	Optimal production altitude range (Masl)	Places recommended	Cotton Seed yield (t/ha)	Distinctive characters	Special attributes/Disease reaction
1.	UKM 08	2008	ARI Ukiriguru	900 - 1372	Mwanza, Shinyanga, Morogoro, Mara, Tabora	2.5	High yielding Number of bolls per plant – 26 Ginning outturn: 44% Plant height: 114cm. Average lint yield: 1050 Kg/ha Maturity: 146 – 148 days	
2.	UK O8	2008	ARI Ukiriguru	900-1372	Mwanza, Shinyanga, Morogoro, Mara, Tabora	2.0	High yielding Number of bolls per plant – 26 Ginning outturn: 41.4% Plant height:	

							99cm. Average lint yield: 808 Kg/ha Maturity: 165-180 days	
3.	NTA 93 - 21	2014	ARI Ilonga	0 - 1200	Morogoro, Bagamoyo, Singida	2.0	Maturity: 150– 155 days	
4.	UK 171	2018	ARI UKIRIGURU	400 - 1600	Mwanza, Shinyanga, Morogoro, Mara, Tabora, Simiyu	3.5	High seed cotton yield Early maturing	Resistant to Fusarium wilt High ginning outturn and high lint yield
5.	UK 173	2018	ARI UKIRIGURU	400 - 1600	Mwanza, Shinyanga, Morogoro, Mara, Tabora, Simiyu	3.3	High seed cotton yield Early maturing	Resistant to Fusarium wilt High ginning outturn and high lint yield
6.	MAHYCO C569	2020	QUTON Seeds PVT. Tanzania Limited	100-1400	Low to Medium			-High seed cotton yield -Early maturity -Large boll size, high boll mass, easy to pick -Hairy leaves impart tolerance to sucking insect pests especially Jassids -Wider adapatability -High GOT% (greater than 40%)
7.	MAHYCO C577	2020	QUTON Seeds PVT. Tanzania Limited	100-1400	Low to Medium			-High seed cotton yield -Early maturity -Large boll size, high boll mass, easy to pick -Hairy leaves

								impart tolerance to sucking insect pests especially Jassids -Wider adaptability -High GOT% (greater than 40%)
8.	MAHYCO C579	2020	QUTON Seeds PVT. Tanzania Limited	100-1400	Low to Medium		High seed cotton yield Early maturity Large boll size, high boll mass, easy to pick	Hairy leaves impart tolerance to sucking insect pests especially Jassids -Wider adaptability -High GOT% (greater than 40%)

Species: Sugar cane (*Saccharum officinarum*)

S/No.	Variety	Year of release	Owner/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Yield (TCH)	Distinctive characters	Special attributes/Disease reaction
1.	N 19	2009	SRI-Kibaha	0-1300	Morogoro, Kagera, Kilimanjaro	80	-Mature in 12 months -Good rooting ability	-Resistant to sugarcane smut -Susceptible to Eldana stalk borer
2.	N 25	2009	SRI-Kibaha	0-500	Morogoro, Kagera, Kilimanjaro	80	-Mature in 12 months -Good rooting	-Resistant to sugarcane smut -Susceptible to Eldana stalk borer

							ability	
3.	R 570	2014	SRI-Kibaha	0 - 1200	Morogoro, Kagera, Kilimanjaro	9.5		Resistant to sugarcane smut disease
4.	R 575	2014	SRI-Kibaha	0 - 1200	Morogoro, Kagera, Kilimanjaro	10.77		Resistant to White scale pest attack
5.	R 579	2014	SRI-Kibaha	0 - 1200	Morogoro, Kagera, Kilimanjaro	11.3		Resistant to sugarcane smut disease and White scale pest attack
6.	N 30	2014	SRI-Kibaha	0 - 1200	Morogoro, Kagera, Kilimanjaro	11.4		Resistant to sugarcane smut disease
7.	N 41	2014	SRI-Kibaha	0 - 1200	Morogoro, Kagera, Kilimanjaro	10		Resistant to sugarcane smut disease

Species: Tea

S/No.	Variety	Year of release	Owner/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield t/Ha)	Distinctive characters	Special attributes/Disease reaction
1.	TRFK 301/5	2011	Tea Research Institute of Tanzania (TRIT)	970-2000		2.8		Leaf harvesting starts after one year from planting
2.	TRFK 430/63	2011	Tea Research Institute of Tanzania (TRIT)	970-2000		2.7		Leaf harvesting starts after one year from planting
3.	TRFK 303/178	2011	Tea Research Institute of Tanzania (TRIT)	1400-1840		2.6		Leaf harvesting starts after one year from planting
4.	TRFK 381/5	2011	Tea Research Institute of	970-1840		2.3		Leaf harvesting starts after one

			Tanzania (TRIT)					year from planting
5.	TRIT 201/43	2016	Tea Research Institute of Tanzania (TRIT)	970-1800	Tea grown areas	2.5		Moderately tolerant to drought stress and mosquito bugs
6.	TRIT 201/44	2016	Tea Research Institute of Tanzania (TRIT)	970-1800	Tea grown areas	2.2		Moderately tolerant to drought stress and mosquito bugs
7.	TRIT 201/55	2016	Tea Research Institute of Tanzania (TRIT)	970-1800	Tea grown areas	2.5		Moderately tolerant to drought stress and mosquito bugs
8.	TRIT 201/16	2016	Tea Research Institute of Tanzania (TRIT)	970-1800	Tea grown areas	2.9		Moderately tolerant to drought stress and mosquito bugs

Specie: Finger Millet

S/No.	Variety	Year of Release	Owner/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield t/ha)	Distinctive characters	Special attributes/Disease reaction
1.	UFM 149	2012	ARI Uyole	500-1200		2.2		-High yielding -Moderately resistant to blast
2.	U15	2012	ARI Uyole	500 - 1200		2		-High yielding -Moderately resistant to blast
3.	TARI-FM1	2020	Tanzania Agricultural Research Institute (TARI)	100 - 1600	Low to Medium			-High grain potential -Resistance to blast -Early maturing

Species: Round Potato

S/No.	Variety	Year of Release	Owner/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield t/ha)	Distinctive characters	Special attributes/Disease reaction
1.	Asante	2012	Horti - Tengeru	1200-2900	All areas grown around potato	20-30		Resistant to late blight and lodging
2.	Sherekea	2012	Horti - Tengeru	1200-2900	All areas grown around potato	40-70		Resistant to late blight and potato virus x and y
3.	Meru	2012	Horti - Tengeru	1200-2900	All areas grown around potato	35-50		Resistant to late blight and potato virus x
4.	Tengeru	2012	Horti - Tengeru	1200-2900	All areas grown around potato	30-40		Resistance to late blight
5.	Jelly	2017	Mtanga Foods Ltd	800-2000	All areas grown around potato	35.9		Tolerance to Potato Late blight, Potato leaf blight and Potato Virus - Good storability -Used for French fries -Good marketable

6.	Rumba	2017	Mtanga Foods Ltd	800-2000		35.6		Tolerance to Potato Late blight, Potato leaf blight, Tuber blight, Common Scab and Potato Virus - Good storability -Resistance to machtenical damage -Good marketable
7.	Sagita	2017	Mtanga Foods Ltd	800-2000	All areas grown iround potato	34.9		Tolerance to drought -Tolerance to Potato virus, Tuber blight and Common Scab - Resistance to machtenical damage - Good marketable - Good storability -Multipurpose variety(French fries, French crisps and Ware potato)
8.	Panamera	2019	HZPC IPR B.V					OPV
9.	Sifra	2019	HZPC IPR B.V					OPV
10.	Taurus	2019	HZPC IPR B.V					OPV

Specie: Bambaranut (*Vigna subterranea*)

S/No.	Variety	Year of Release	Owner/Maintainer and seed source	Optimal production altitude range (Masl)	Places recommended	Grain yield t/ha)	Distinctive characters	Special attributes/Disease reaction
1.	NalBam-03	2013	ARI-NALIENDELE	0 - 1500	Bambaranut grown area	1		High in protein (27%)

2.	NalBam-04	2013	ARI-NALIENDELE	0 - 1500	Bambaranut grown area	1		High in Fe content (30 mg/kg)
3.	NalBam - 06	2013	ARI-NALIENDELE	0 - 1500	Bambaranut grown area	0.8		High oil content (6%)
4.	TANBAM 2013	2013	ARI-NALIENDELE	0 - 1500	Bambaranut grown area	1		High oil content (6%)
5.	NALBA9-2017	2018	ARI-NALIENDELE	0 - 1500	Bambaranut grown area	1		High yield, high carbohydrate content
6.	NALBAM 22- 2017	2018	ARI-NALIENDELE	0 - 1500	Bambaranut grown area	1		High yield, high protein content