

15. NATIONAL SORGHUM VARIETY LIST

Species: *Sorghum bicolor*

Variety name/code	Official Release Name	Year of release	Owner(s) / Licensee	Maintainer	Optimal production altitude range (Masl)	Duration to maturity (months)	Grain (G) and/or Forage(F) yield (t ha ⁻¹)	Special attributes
1. Seredo	Seredo	1970s	KARI/KSC	KARI/KSC	250-1750	4	2.7 (G)	▪ Wide adaptability
2. Serena	Serena	1970s	KARI/KSC	KARI/KSC	250-1750	3	2.7 (G)	▪ Wide adoptability
3. BJ28	BJ28	1978	KARI	KARI-Lanet	1750-2300	7	2.5-3.0 (G)	▪ Dual purpose
4. 2K x 17	2K x 17	1981	KARI/KSC	KARI/KSC	250-1500	3	2.5 (G)	▪ Hard endosperm Dehulled to make a rice like product
5. IS76	IS76	1981	KARI/KSC	KARI/KSC	250-1500	3	2-3 (G)	▪ Semi hard endosperm
6. IS8595	IS8595	1982	KARI	KARI-Katumani	250-1800	3	2.7 (G)	▪ Grain covered by glum Low bird damage
7. Gadam	Gadam	1994	KARI	KARI	0-1500	3	2-2.5 (G)	▪ Specially adapted to coastal and semi-arid lowlands
8. Ikinyaluka	Ikinyalu ka	1996	KARI	KARI Kakamega	1750-2300	7	8 (F)	▪ High quality forage
9. IS 8193	IS 8193	1996	KARI	KARI	500-1600	4	2.5 (G)	▪ Resistant to bird damage
10. Kat/PROI	Kat/PROI	1998	KARI/KSC	KARI/KSC	1000-1700		-	
11. KARI Mtama -1	KARI Mtama -1	2000	KARI	KARI-Katumani	250-1800	3-3.5	3.4 (G)	▪ Tolerant to stem borer
12. E1291	E1291	2000	KARI	KARI-LANET	1750-2300	7	2.7 (G) 2.7 (F)	▪ Dual purpose ▪ Good beverage quality
13. E 6518	E 6518	2000	KARI	KARI-LANET	1750-2300	8	3.4 (G) 7.2 (F)	▪ High quality
14. Sila	Sila	2006	AgriSee dCo Ltd	SEEDCO Zambia	250-1800	3-3.5	2-4 (G), 4(F)	▪ Dual Purpose
15. KARI 16. Mtama 2	KARI 16. Mtama 2	2008	KARI	KARI	500-1200	3.5	3.5	▪ Resistant to birds
16. Legio	Legio	2008	KARI	KARI	1000-2000	4	4.5	▪ High yield

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17. Kaburu	Kaburu	2008	KARI	KARI	500-1500	3.5	4	<ul style="list-style-type: none"> ▪ High yield
18. KARIA-SH2	KARIA-SH2	2008	KARI	KARI	1500-2000	5.5	4 (G) 8 (F)	<ul style="list-style-type: none"> ▪ Dual purpose ▪ Tolerant to rust and cold
19. LDT090	KIBUYU	2011	LELDET	LELDET	1500-1800	4-5	3-4	<ul style="list-style-type: none"> ▪ Wide adaptability ▪ Dual purpose ▪ Red seed resistant to bird damage
20. P9518 A x ICSR9 2074	Hybrid Mtama -1 (KSBH-01)	2012	KARI	KARI Katumani	900-1800masl (Does well in hot dry and hot humid semi-arid areas)	3-3.5	2-4	<ul style="list-style-type: none"> ▪ This is a hybrid sorghum ▪ Brown large seed ▪ Sweet stems (15+%Brix which increases after harvesting heads) ▪ High extractable starch (77.4%) ▪ Drought tolerance ▪ Early to medium maturity flowering 56-59 and 100-110 days to maturity
21. KenSorg2	KS - Sorg2	2013	Kenya Seed Co.	Kenya Seed Co.	250-1750 m.a.s.l Bungoma, Homabay, Siaya, Embu, Kakamega	2.5-3.5	2.0-3.0	<ul style="list-style-type: none"> ▪ High milling capacity ▪ Anthracnose tolerance ▪ Ergot tolerance
22. KenSorg5	KS-Sorg1	2013	Kenya Seed Co.	Kenya Seed Co.	200-1800 m.a.s.l Bungoma, Homabay, Siaya, Embu, Kakamega	2.5-3.5	2.5-3.2	<ul style="list-style-type: none"> ▪ Tolerance to bird damage ▪ Tolerance to Ergot
23. MUSV T53B	RUT53	2016	Rongo University College	Western and Eastern Kenya agro-ecologies		3-4	2.2-3.6	<ul style="list-style-type: none"> ▪ Striga tolerant, tolerant to low phosphorus ▪ Tolerant to bird damage ▪ Tolerant to acid soils

								Tolerant to head smut
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24. MUSV NYAD UNDO	NYADUNDO	2016	Rongo University College	Western and Eastern Kenya agro-ecologies		3	2.5 - 3.0	<ul style="list-style-type: none"> ▪ Drought tolerant, tolerant to bird damage ▪ Stay green ▪ Moderately tolerant to striga and acid soil ▪ Tolerant to head smut
25. MUSV 95A	RUE95	2016	Rongo University College	Western and Eastern Kenya agro-ecologies		3	2.5-3.0	<ul style="list-style-type: none"> ▪ Drought tolerant ▪ Tolerant to Aluminium toxicity and low available phosphorus
26. 23012	ADV23 012	2016	Advanta Seeds International	Kiboko, Kitui, Rwika, Katumani, Kilima mbogo		3	2.5-6.0	<ul style="list-style-type: none"> ▪ Dwarf hybrid ▪ Short in height ▪ Suitable for mechanical harvesting ▪ Good for big farms ▪ Dwarf hybrid ▪ Tolerant to lodging ▪ Tolerant to drought ▪ Grain suitable for food ▪ Feed and brewery
27. KENSO RG 11	KS-KENSO RG-11	2016	ICRSAT/ KSCO	Kenya Seed Company	200-15000 m asl Eastern parts of Kenya, Homa Bay , Kimaeti, Bukura and Busia	3	2-3.5	<ul style="list-style-type: none"> ▪ Drought tolerant ▪ resistant to diseases ▪ It does well in Eastern & Nyanza ▪ Poorly performed in Kimaeti, Bukura & Busia
28. KENSO RG 12	KS-KENSO RG-12	2016	ICRSAT/ KSCO	Kenya Seed Company	200-15000 m asl: Eastern parts of Kenya, Homa Bay , Kimaeti, Bukura and Busia	3	2-3.5	<ul style="list-style-type: none"> ▪ Drought tolerant, resistant to diseases

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29. KENSO RG 13	KS-KENSO RG-13	2016	ICRSAT/ KSCO	Kenya Seed Company	200-15000 m asl: Eastern parts of Kenya, Homa Bay , Kimaeti, Bukura and Busia	3-4	2-4	▪ Drought tolerant, resistant to diseases
30. KENSO RG 14	KS-KENSO RG-11	2016	ICRSAT/ KSCO	Kenya Seed Company	200-15000 m asl: Eastern parts of Kenya, Homa Bay , Kimaeti, Bukura and Busia	3-4	2-4	▪ Drought tolerant and resistant to diseases
31. SC Smile	SC Smile	2016	Agri seed co limited	Agri seedco limited	Lowland to medium altitudes – Upto 1500 m.a.s.l e.g. Busia, Kitui, Kisumu, Machakos, Embu, Meru, Homabay, Bomet, Thika, Kilifi, Migori, Baringo, Bungoma & Makueni	3	2.5 - 3	▪ Tolerant to bird damage due to its red seeded colour, Reduced lodging as a result of short stature and strong stalks, It has good tolerance to both drought and heat, Satisfactory high yield potential across a wide range of environments, Tolerant to leaf blight and sooty stripe, Suitable for malting. SDU (sorghum diastatic units) 26-29 (spec 25-35); Solubility 100 % (spec >90%); Moisture – 6 %(spec 5-10%)
32. EUSH1	Egerton Sorghu m Hybrid	2016	Egerton universi ty	Prof Erick Cheruiyot & Dr. James Owuoch Source: ICRISAT	Agro ecological zone lower midland LM1-LM3, Altitude range:1300-1500	3	4.5	▪ Grain suitable for malting and brewing

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33. SWEE T SORG 4	KS-SWEET SORGH 4	2016	ICRSAT/ KSCO	Kenya Seed Company	250-1750 masl. Mwea, Homabay, Bungoma	2-3	2.9	▪ High milling capacity
34. SWEE T SORG 14	KS-SWEET SORG 14	2016	ICRSAT/ KSCO	Kenya Seed Company	200-1750 masl Homabay,	2-3	3.83	▪ Dual purpose, high brix yield
35. SWEE T SORG 17	KS – SWEET SORG 17	2016	ICRSAT/ KSCO	Kenya Seed Company	200-1000 masl Mwea, Homabay, Bungoma	2-3	3.12	▪ High stalk and juice yield and brix yield
36. SWEE T SORG 21	KS – SWEET SORG 21	2016	ICRSAT/ KSCO	Kenya Seed Company	1800-1500masl Mwea , Kitui , Machakos, Kario	3-5	3.2	▪ Brix 13.0%
37. KARI/ ACF00 3/12	Kak sweet Sorgh1	2016	KALRO (G. B. Ashiono)	KALRO NRI (G.B.Ashiono)	Areas ranging from 500 – 1800 M.a.s.l. Western Kenya: Kakamega, Vihiga, Bungoma and Busia. Nyanza: Siaya, Migori, Homabay and Kisumu, Nakuru, Kericho, Naivasha, Kajiado, Narok, Bomet, Baringo, Elgeyo Marakwet, West Pokot, and Turkana, Nyeri and Nyandarua	4-5	2 (Grain). 16% Brix, 12% total Sugars	▪ This is a brown midrib sweet sorghum which is dual purpose, with sweet stems, white large grains, Drought tolerant, Medium maturity, Suitable for ethanol production
38. EUSS1 0	EUSS10	2016	Egerton universi ty	Prof Erick Cheruiyot & Dr. James Owuocche, Source: ICRISAT	Agro ecological zone lower midland to Upper Midland LM1- UM Altitude	3-4	Grain: 1.3, Stalk: 40, Ethanol: 644 L/ha	▪ Stalk rich in sugars fermentable, Good for ethanol production and animal feed

					range:1200-2200			
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39. EUSS11	EUSS11	2016	Egerton universi ty	Prof Erick Cheruiyot & Dr. James Owuoc he Source: ICRISAT	Agro ecological zone lower midland LM1 Altitude range:1200-1500	3-4	Grain 2.4, Stalk 44, Ethanol 838 L/ha	<ul style="list-style-type: none"> ▪ Stalk rich in fermentable sugars,
40. E97	RUE97	2017	Rongo Universi ty	Rongo University	Western Kenya (Kakamega county), around the low land areas of Lake Victoria basin (Homabay, migori,siaya, Kisumu, busia,), Eastern Kenya, (Machakos, Kitui, Embu	3	4-4.5	<ul style="list-style-type: none"> ▪ Tolerance to Eggot, head smut, Drought tolerant, Moderately tolerant to striga and tolerant to aluminium toxicity and law levels of phosphorous in the soil
41. 7031	ADV7031	2018	Advanta Seeds	Advanta Seed International	Low to moderately high rainfall (450 to 750 mm annual rainfall)	2-3 to Midbloo m, 3-4to Harvest	3.2 – 4.0	<ul style="list-style-type: none"> ▪ Late maturing and high yielding cream hybrid ▪ Semi open head type, ▪ Resistant to Greenbug pest and midge ▪ Excellent drought tolerance
42. 7450	ADV7450	2018	Advanta Seeds	Advanta Seed International	Low to moderately high rainfall (450 to 750 mm annual rainfall)	2-3 to Midbloo m, 3-4 to Harvest	3.0 – 3.5	<ul style="list-style-type: none"> ▪ Late maturing and high yielding cream hybrid ▪ Semi open head type ▪ Resistant to Greenbug pest ▪ Excellent drought tolerance
43. 7431	ADV7431	2018	Advanta Seeds	Advanta Seed International	Low to moderate rainfall (450 to	2-3 to Midbloo m, 3-4to Harvest	3.2 – 3.8	<ul style="list-style-type: none"> ▪ Late maturing and high yielding cream hybrid

					650 mm annual rainfall)			<ul style="list-style-type: none"> ▪ Semi Open head type ▪ Resistant to Greenbug and sugarcane aphids pests ▪ Excellent stay green hence suitable for both grain and fodder ▪ Excellent drought tolerance ▪ Very good plant uniformity
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44. 12GS9 002	SC XH 101	2018	CHROM ATIN / SEEDCO	CHROMATIN	Lowland to Medium altitudes like Kwale, Taveta, Embu, Machakos, Kitui, Thika, Embu, Baringo, Kisumu, Homabay, Busia and Bungoma	3.4-5	3-5	<ul style="list-style-type: none"> ▪ Light brown grain coloured sorghum ▪ Low tannin hence suitable for brewing ▪ Large plants hence suitable for use as fodder crop / forage ▪ Tolerance to leaf diseases such as rusts (<i>Puccinia purpurea</i>) blight (<i>Exserohilum turicum</i>) and sooty stripe (<i>Ramulispora sorghi</i>)
45. Sugarg raze	Sugargr aze	2019	Advanta Seeds	Advanta Seed International	Altitude: 500 – 1500 masl, Examples: Bukura, Embu, Kiboko, Kitale and Lanet	3 – 4 cuts per cropping season	40 - 70	<ul style="list-style-type: none"> ▪ Sweet stem with very high sugar levels (16 – 18% brix) ▪ Multi cut forage and drought tolerant ▪ Dry matter content of 14%, Suitable for both hay

									▪ green chop and silage, Soft stems and internodes hence high palatability ▪ Higher digestibility and forage quality
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46. KALSb -OP4- 32-01 (KAM 32-1)	Kamani	2019	KALRO	KALRO-KATUMANI	Altitude:500 – 1800 masl AEZ: LM 4-5 Examples: Kitui, Makueni, Machakos, Meru, Embu, Busia, Homabay and Siaya	3-4	3.5 – 4	▪ Good malting quality ▪ Big seeded, White seeded ▪ Short plants suitable for machine harvests ▪ Drought tolerant ▪ Tolerant to low temperatures ▪ Has very low tannin (sweet grain) ▪ Good for de-hulling	
47. SWSB 8001	TEX 14	2023	Agventure Ltd	Agventure Ltd	Altitude:1200m – 1900m AEZ:UM (1-3),4-5;LM(1-3),4-5;L(1-3), 4-5 Sites: Bahati, Kabarak,Timau, Lengetia, Athi River, Njoro, Mau Narok.	3-4 after planting 1.5-2 for regrowth	60-75 fresh weight	▪ Multi cut forage, 3-4 per cropping season ▪ high regrowth capacity, high nutritional quality fodder in terms of energy, protein, and fibre, can be used for green chop and silage ▪ Tex 14 is a sorghum x sudan so is a low risk hybrid for prussic Acid poisoning, dry matter content of 30%	
48. Jasiri	TZ 2 LOCAL	2024	KALRO	KALRO KATUMANI	Attitude: 100-1700 m.a.s.l AEZ:LM4-LM5, UM4-5	3-4	2-3.8	▪ 97.5% birdescaping(2.5% bird damage) Chalky white grain	

					SITES:Kitui, Kampi ya mawa, Tharaka Nithi, Kilimambogo etc			Drought Tolerant Has brewing quality (66.03% starch content)
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49. Pato 1	PL 14	2024	KALRO	KALRO KATUMANI	Altitude 1000- 1800 m.a.s.l AEZ:UM4-5, LM3-LM5 SITES:Kitui, kampi ya mawe, tharaka nithi, kilimambogo etc	3-4	2-3.6	■ 95% birdescaping(5% bird damage) Brown grain Drought Tolerant Moderate brewing quality(61.59% starch content)
50. Ndume	PL 20	2024	KALRO	KALRO KATUMANI	Altitude:900- 1700 m.a.s.l AEZ: LM4-LM5, UM4-5 Sites: Kitui, Makueni,Tharak a nithi,Kampi ya Mawe,Kilimamb ogo,etc	3-4	2-3	■ 95% birdescaping(5% bird damage) White grain with brown spots Drought Tolerant Has brewing quality (63.42% starch content)
51. SMART	PL 39	2024	KALRO	KALRO KATUMANI	Altitude: 9000- 1500 m.a.s.l AEZ:LM4-LM5, UM4-5 SITES:Kitui, Kampi ya mawa, Tharaka Nithi, Kilimambogo etc	3-4	2-3.5	■ 99.4% birdescaping(0.6% bird damage) Pearl White grain Drought Tolerant Has brewing quality (66.28% starch content)
52. HUMMER	ICS	2024	KALRO	KALRO KATUMANI	Altitude 1000- 2100 m.a.s.l AEZ:UM4-5, LM3-LM5 SITES:Kitui, kampi ya mawe, tharaka nithi, Makueni ,kilimambogo etc	3-4	2-3	■ 88% birdescaping(12% bird damage) Red grain Drought Tolerant High calcium 50 mg/100g

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53. AGV KUZO	AGV KUZO	2024	KWS SAAT SE &Co KAAG	Agventure Limited	Attitude 1200-1800 m.a.s.l AEZ:UM3-5, LM3-LM5 SITES:Baringo, Nakuru, Narok, Laikipia, Meru etc.	4-5	4-6	▪ Good brewing quality Short plant height, Combine harvestable. Fast dry down Adaptable to different planting densities
54. KWS PASH O	KWS PASHO	2024	KWS SAAT SE &Co KAAG	Agventure Limited	Attitude 1200-1800 m.a.s.l AEZ:UM3-5, LM3-LM5 SITES:Baringo, Nakuru, Narok, Laikipia, Meru etc.	3-4	40-50 fresh matter yield	▪ Multipurpose cutting: green chop and silage. Good cold tolerance Tolerance to leaf blight (<i>E. turicum</i>) Strong ratooning
55. MEGA SWEET	MEGA SWEET	2024	ADVANTA SEEDS	ASI SEEDS ENTERPRISE S(K) LTD	Attitude 1100-2400 m.a.s.l AEZ:LH2-LH4, UM4-5,UM5,LM5 SITES:Lanet, Embu, Bukura,Kiboko, Njoro,Eldoret, Kitale,Nakuru,Bomet	2-3 days to 1 st cut and 2-3 days after previous cut fat ratoons	Green fodder yield up to 70 t/ha Dry matter yield of 15-20 t/ha (cumulative yield)	▪ High biomass yielding multicut (2 to 3 times) sweet sorghum forage hybrid. Low HCN content of 86-90 ppm 30 days after planting which is very safe for animals as it is below 200 ppm threshold. Thick and juicy stems High brix 14%-16% at soft dough stage High digestibility (63-65%)
56. BMR ROCKE T	BMR ROCKE T	2024	ADVANTA SEEDS	ASI SEEDS ENTERPRISE S(K) LTD	Attitude 1100-2400 m.a.s.l AEZ:LH2-LH4, UM4-5,UM5,LM5 SITES:Lanet, Embu, Bukura,Kiboko,	2-3 to 1 st cut and 1-2 days after previous cut fat ratoons	Green fodder yield up to 50 t/ha Dry matter yield of	▪ Hybrid with BMR 6 trait (low lignin) for increased digestibility Low HCN content of 68-100 ppm 30 days after planting which is very safe

					Njoro,Eldoret, Kitale,Nakuru,B omet		12-15 t/ha (cumulati ve yield)	for animals as it is below 200 ppm threshold . Multicut ability (2 to 3 times) High protein(8%- 10%) High leaf to stem ratio. High digestibility (60%) at dough stage
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57. MHTG S- 12001	Ramses	2023	Hytech seed kenya	MISR Hytech Seed INT	Attitude 300- 1500 m.a.s.l AEZ:LM4-5 SITES:Katumanzi, Kambi Mawe, Kilimambogo, Rwika, Mukothima etc	2.5-3	2.4-5	▪ Speciably adapted to coastal and lower medium altitudes Grain suitable for food, feed and brewing
58. HORU S	Horus	2023	Hytech seed kenya	MISR Hytech Seed INT	Attitude 300- 1500 m.a.s.l AEZ:LM4-5 SITES:Katumanzi, Kambi Mawe, Kilimambogo, Rwika, Mukothima etc	2.5-3	3-4	▪ Speciably adapted to coastal and lower medium altitudes Medium Heights and uniform heights suitable for machine harvesting Grain suitable for food, feed and brewing
59. MABR OUK	Mabro uk	2023	Hytech seed kenya	MISR Hytech Seed INT	Attitude 700- 2500 m.a.s.l AEZ:LM1-3 um 1 SITES:Lanet, Embu, Kitale, Kiboko, Kaguru etc	2.5-3	60-80	▪ It's a multi-cut variety with cutting intervals of 50-65 days Silage protein levels at 15.74% High sugar content(Brix 17- 20%) hence high ensiling quality Can withstand direct grazing

								Harvesting for 18-24 months Suitable in a wide range of environments
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