

Sorghum Genetic Resources Characterization Descriptor

S.No.	Descriptor	No. of observation	Method of data record	Stage of the crop
1	Early Plant Vigour	Visual observation	1 - Poor, 2 - Good, 3 - very Good	25th Day after sowing
2	Number of Days to 50% flowering	5 random plants	No. of days from date of Sowing, Quantitative	Flowering period
3	Total Number of Leaves	5 random plants	No. of leaves in a plant Quantitative	Full Foliage stage
4	Leaf Length (cm)	5 random plants	7th leaf from the base of the plant, Quantitative	Full Foliage stage
5	Leaf Width (cm)	5 random plants	7th leaf from the base of the plant, Quantitative	Full Foliage stage
6	Leaf Colour	Visual observation	1 - Pale green, 2 - Light green, 3 - Dark green	Full Foliage stage
7	Leaf Sheath Pigmentation	Visual observation	1 - Tan, 2 - Non - tan	Full Foliage stage
8	Leaf Orientation	Visual observation	1 - Erect, 2 - Drooping	Full Foliage stage
9	Leaf Midrib Colour	Visual observation	1 - White, 2 - Green, 3 - Yellow, 4 - Brown, 5 - Purple, 6 - Colourless, 7 - Dark green	Full Foliage stage
10	Ear Head Compactness	Visual observation	1 - Compact, 2 - Semi - Compact, 3 - Loose, 4 - Very Loose, 5 - Broom corn, 99 - Others	Reproductive stage
11	Ear Head Length (cm)	5 random plants	Tip to the base of the panicle, Quantitative	Reproductive stage
12	Ear Head Width (cm)	5 random plants	Broad middle of the panicle, Quantitative	Reproductive stage
13	Race	5 random plants	1 - Durra, 2 - Bicolor, 3 - Caudatum, 4 - Guinea, 5 - kaffir	
14	Ear Head Shape	Visual observation	1 - Round, 2 - Oblong, 3 - Ovate, 4. Elliptical, 5. Cylindrical, 6 - Broom corn, 99 - Others	Maturity Stage
15	Glume Colour	Visual observation	1 - White, 2 - Straw, 3 - Light brown, 4 - Brown, 5 - Reddish brown, 6 - Light red, 7 - Red, 8 - Dark red, 9 - Purple, 10 - Black, 11. Straw & brown, 12 - Straw & Purple	Near Maturity stage
16	Glume Covering	Visual observation	1/4, 1/2, 3/4 and fully grain uncovered	Near maturity stage
17	Plant Height (cm)	5 random plants	Ground level to the tip of the panicle, Quantitative	Reproductive stage
18	Grain Weight (g)	5 random plants	Selected one panicle from the bulk, Quantitative	After harvest of the crop
19	Grain Colour	Visual observation	1 - White, 2 - Chally white, 3 - Creamy straw, 4 - Light yellow, 5 - Yellow, 6 - Light brown, 7 - Brown, 8 - Reddish brown, 9 - Light red, 10 - Red, 11 - Grey, 12 - Purple, 13 - White and red mixed, 14 - Black	After harvest of the crop
20	Grain Shape	Visual observation	1 - Compactly flat, 2 - Round, 3 - Sub lenticular round but flat from other side, 4- Oval, 5 - Elliptical	After Harvest of the crop
21	Grain Size	Visual observation	3 - Small, 5 - Medium, 7 - Bold	After harvest of the crop
22	Presence of Awn	Visual observation	0 - Absent, 1 - Present	Maturity Stage
23	Endosperm Texture	Visual observation	1 - Compactly comeous, 2 - Mostly comeous, 3 - Intermediate, 4 - Mostly starchy 5 - Completely starchy, fluoury, 6 - Waxy, 7 - Yellow endosperm	After harvest of the crop
24	Grain Lustre	Visual observation	0 - Non Lustrous, 1 - Lustrous	After harvest of the crop
25	100 Seed Weight (g)	5 random plants	100 random seeds from the bulk, Quantitative	After harvest of the crop
26	Stay Green	Visual observation	0 - Non Senescence, 1 - Senescence	Full foliage stage
27	Remarks	Visual observation	Any other important observations	Full foliage stage