

Plant		Other millets and other industrial crops		542	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Stem color	Block	Observation	1:Green 3:Purple 5:Mixed 9:Others		Observe hypocotyl color when the 1st leaf has developed. For colors not in the list, choose 9 and describe the color.
2	Germination type	Block	Observation	1:Epigeal 3:Hypogeal 5:Intermediate 7:Mixed 9:Others		Observe the position of cotyledon at the emergence
3	Emergence of inflorescence (Poaceae, Amaranthaceae et.al.)	Block	Observation	date		Date when 50% of the plants have emerged inflorescence of more than 1cm.
4	Beginning of flowering	Block	Observation	date		Date when 50% of plants have at least one flower open.
5	Flower color, Inflorescence color	Block	Observation	1:Red 2:Purple 3:Pale purple 4:Yellow 5:Greenish yellow 6:Cream 7:White 8:Blue 9:Others		For colors not in the list, or the case of plants with mixed colors, choose 9 and describe the colors.
6	Plant type	Block	Observation	1:Erect 3:Spreading:Branches touch ground 5:Twining:Stems twining to trellis 9:Others		Observe the type at the beginning of ripening. For the types not in the list, choose 9 and describe the type.
7	Plant height / culm length	Block	Measurement	cm (integer)		Measure the height of the erect stem/culm at the beginning of ripening. Flowers and inflorescence are not included.
8	Leaf color	Block	Observation	1:Green 3:Greenish yellow 5:Purplish red 9:Others		Observe the color at the beginning of flowering. For colors not in the list, choose 9 and describe the color.
9	Length of leaf blade	Block	Measurement	cm (round to the 1st decimal place)		Measure the length of the largest leaf at the beginning of ripening.
10	Width of leaf	Block	Measurement	cm (round to the 1st decimal place)		Measure the width of the largest leaf at the beginning of ripening.

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11	Beginning of seed ripening	Block	Observation	date		Date when 50% of plants have the first mature fruit, pod, or seed.
12	Pod dehiscence / seed shattering	Block	Observation	1:No 3:Yes 9:Others		For types not in the list, choose 9 and describe the type.
13	Panicle length / inflorescence length	Block	Measurement	cm (round to the 1st decimal place)		Measure panicle length / inflorescence length at the ripening. Use the plant chosen for measuring plant height. Bended rachis should not be stretched.
14	100 seed weight	Block	Measurement	g (round to the 1st decimal place)		
15	Seed coat color	Block	Observation	1:Black 2:Blackish brown 3:Brown 4:Pale brown 5:Reddish brown 6:Purple 7:White 9:Others		Take the lighter color as the base seed coat color if two or more colors exist. For colors not in the list, or the case of seeds with mixed base seed coat colors, choose 9 and describe colors.
16	Seed mottled color	Block	Observation	1:Black 2:Blackish brown 3:Brown 4:Pale brown 5:Reddish brown 6:Purple 8:Not mottled 9:Others		For colors not in the list, or the case of seeds with mixed colors, choose 9 and describe the colors.
17	Seed length	Block	Measurement	mm (round to the 1st decimal place)		Measure the average seeds
18	Seed width	Block	Measurement	mm (round to the 1st decimal place)		Measure the average seeds
19	Observer's comments		Others			Note if seed dormancy break treatment, flower initiation treatments such as short day or long day treatments are conducted. Also, note if there are diseases, pests, or special characters.

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Number of branches per main stem	Block	Measurement	Number per plant (integer)		Measure the number of rachises at the beginning of ripening. The length of the rachis should be more than 30cm.
2	Petiole length	Block	Measurement	cm (round to the 1st decimal place)		Measure the largest leaf at the beginning of ripening.
3	Ripening	Block	Observation	date		Date ripening of representative fruit, pod, or seed.

Plant	Other millets and other industrial crops		542	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Insect resistance	Block	Observation	3:Weak 5:Medium 7:Strong	Observe the resistance to pests throughout the cultivation period (record name of pests as far as you know)