

Plant		Common rush		443	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Stem length	20 plants	Measurement	cm (integer)		Length from ground to tip in the longest stem at harvest time
2	Fresh stem color	Block	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly deep green 7:Deep green 8:Dark green		Fresh stem color at the beginning time of flowering
3	Cluster size	20 plants	Measurement	mm (integer)		Length of the longest peduncle at fructification time
4	Number of clusters	20 plants	Measurement	% (round to the 1st decimal place)		Rate of stems with flower in the stems longer than 105 cm length at harvest time
5	Perianth color	Block	Observation	3:Yellow 4:Light green 5:Green 6:Light brownish green 7:Brown		Perianth color at flowering time
6	Flowering start time	Block	Observation	date		First date of flowering

Plant		Common rush		443	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant type	Block	Observation	3:Erect 4:Slightly erect 5:Intermediate 6:Slightly prostrate 7:Prostrate		Plant type at flowering time
2	Stem thickness	20 plants	Measurement	mm (round to the 1st decimal place)		Mean of the long and short diameters of stems at about 50 cm above the ground in dry stems longer than 105 cm (after harvest)
3	Regularity of stem thickness	20 plants	Measurement	% (round to the 1st decimal place)		Coefficient of variation in dry stem thickness
4	Distance between internodes	Block	Observation	3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Length of subterranean stem between the base of the 3rd stem and the base of the 7th stem in tiller with the longest stem at harvest
5	Seed fertility	Block	Observation	3:Sterile 5:Partially sterile 7:Fertile		Seed fertility in open pollination

Plant	Common rush		443	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Ratio of dead tip	500 stems	Measurement	% (round to the 1st decimal place)	Ratio of dead tip stems at 103 cm above ground in dry stems longer than 105 cm
2	Dead tip length	20 stems	Measurement	cm (integer)	Length of dead tip in the longest stems at harvest time

Plant		Common rush		443	Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Resistance to <i>Bactra furfurana</i> Haworth	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Assessed by the damage caused by <i>Bactra furfurana</i> Haworth
2	Resistance to <i>Rhizoctonia solani</i> K	Block	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high		Assessed by the appearance of symptoms caused by <i>Rhizoctonia solani</i> K.

Plant		Common rush		443	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Effective number of stems per plant	20 plants	Measurement	Stem number per plant (integer)		Number of stems longer than 75 cm length at harvest time
2	Number of long stems per plant	20 plants	Measurement	Stem number per plant (integer)		Number of stems longer than 105 cm length at harvest time
3	Number of high long stems per plant	20 plants	Measurement	Stem number per plant (integer)		Number of stems longer than 120 cm length at harvest time
4	Dry weight of high long stems per plant	20 plants	Measurement	g per plant (round to the 1st decimal place)		Weight of dry stems longer than 120 cm
5	Dry weight of stems per 1 meter	20 plants	Measurement	g per 100 stems (round to the 1st decimal place)		Weight of 1 meter dry stems longer than 105 cm (everything 3 cm below base and above 103 cm at top is cut and removed)
6	Dry weight of long stems	20 plants	Measurement	g per plant (round to the 1st decimal place)		Weight of dry stems longer than 105 cm
7	Dry weight of efficient stems	20 plants	Measurement	g per plant (round to the 1st decimal place)		Weight of dry stems longer than 75 cm
8	Dry weight ratio of long stems	20 plants	Measurement	% (round to the 1st decimal place)		$(\text{dry weight of long stems}) / (\text{dry weight of effective stems}) \times 100$
9	Hardness of dry stem	20 plant	Measurement	% (round to the 1st decimal place)		$(\text{stem thickness after 300 g weight for 10 minutes}) / (\text{stem thickness}) \times 100$
10	Color of dry stem	Block	Observation	3:Bright 4:Slightly bright 5:Intermediate 6:Slightly dark 7:Dark		Color tone of dry stem after mud soaking

Plant		Common rush		443	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Number of stems per plant	20 plants	Measurement	Stem number per plant (integer)		Number of stems longer than 15 cm at harvest time
2	Dry stem weight per plant	20 plants	Measurement	g per plant (round to the 1st decimal place)		Dry weight of stems longer than 15 cm at harvest time
3	Number of stems with flowers per plant	20 plants	Measurement	Stem number per plant (round to the 1st decimal place)		Number of stems longer than 15 cm with flowers at harvest time
4	Density of dry stem	20 plants	Measurement	g per cubic centimeter (round to the 1st decimal place)		(weight of dry stem)/(volume of dry stem)
5	Friction strength	20 plants	Measurement	times/per square millimeter (round to the 1st decimal place)		(number of times rubbed with cloth file until stem cutting)/(the stem cross section area)