

Plant		Job's tears		477	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Heading time	Block	Observation	date		Date when 40-50% of stems have headed
2	Flowering time	Block	Observation	date		Date when 40-50% of stems have headed
3	Maturing time	Block	Observation	date		Date when 80-90% of grains have matured
4	Leaf color	Block	Observation	1:Light green 3:Green 5:Green-purple 7:Purple 9:Mixed		Color of leaf blades on main stem at the early growing stage and heading stage
5	Plant height	10 plants, 3 locations	Measurement	cm (integer)		Length of main stem from ground surface to the top of plant at maturing stage
6	Number of tillers	10 plants, 3 locations	Measurement	tillers/plant (integer)		
7	Diameter of culm	10 plants	Measurement	mm (integer)		Diameter of the major axis of the middle part of the lowest internode with length of 5 cm or more
8	Grain setting layer	10-20 plants	Measurement	cm (round to the 1st decimal place)		Length from the lowest grain setting part to the highest one at maturing stage
9	Grain color	1000 grains	Observation	1:White 2:Gray 3:Light brown 4:Yellowish brown 5:Brown 6:Purplish brown 7:Dark brown 9:Mixed		Color of ripe grain

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Beginning time of grain coloration	Block	Observation	date		Date of 40-50% of plants begin grain coloration
2	Wax on leaf sheath	Block	Observation	0:Absent 9:Present		Waxiness of leaf sheath at maturing stage
3	Color of leaf sheath	Block	Observation	3:Light yellowish green 5:Light brown 7:Reddish purple		Color of leaf sheath of second foliage leaf at seedling stage
4	Number of leaves	10 plants	Measurement	leaves/stem (integer)		Number of leaves on main stem at maturing stage
5	Leaf length	10 plants	Measurement	cm (round to the 1st decimal place)		Length of the largest leaf blade on main stem at maturing stage
6	Leaf width	10 plants	Measurement	cm (round to the 1st decimal place)		Width of the largest leaf blade on main stem at maturing stage
7	Color of stigma	Block	Observation	1:White 8:Deep purplish red		Color of stigma at flowering time
8	Number of sheathing bracts	10 plants	Measurement	sheathing bracts/plant (integer)		Number of sheathing bracts per plant at maturing stage
9	Number of grains per sheathing bract	10 plants	Measurement	grains/sheathing bract (integer)		Number of grains per sheathing bract at maturing stage
10	Drooping of sheathing bract	Block	Observation	3:Upward 5:Intermediate 7:Downward		Degree of drooping of sheathing bract at maturing stage
11	Number of grains per plant	10 plants	Measurement	grains/plant (integer)		Total number of grains per plant at maturing stage
12	Grain shape	50 grains	Observation	3:Round 4:Slightly round 5:Elliptical 6:Slightly oblong 7:Oblong		Shape of longitudinal section of ripe grain
13	Shelled grain color	Block	Observation	3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark		Degree of brown coloration of shelled ripe grain
14	Perenniality	Block	Observation	1:Annual 9:Perennial		Degree of perenniality

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15	Regrowth	Block	Observation	0:Absent 9:Present		

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1	Lodging tolerance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Lodging resistance in growing season
2	Shattering	Block	Observation	3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard		Ease of shattering at maturity stage
3	Resistance to leaf blight	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Resistance to leaf blight (<i>Bipolaris coicis</i> (NISHIKADO) SHOEM)
4	Resistance to head smut	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Resistance to head smut (<i>Ustilago coicis</i> BREFELD)

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Germinability at low temperature	100 grains, 3 replications	Observation	% (round to the 1st decimal place)		
2	Grain emptiness	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Ratio of empty grains
3	Resistance to pink borer	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Resistance to pink borer (<i>Sesamia inferens</i> WALKER)
4	Resistance to oriental corn borer	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Resistance to oriental corn borer (<i>Ostrinia furnacalis</i> GUENEE)
5	Cool weather tolerance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Cool weather tolerance in growing season

Plant		Job's tears		477	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Yield	3.3 square meters, 3 replications	Measurement	kg/a (round to the 1st decimal place)		
2	Weight of 1 liter of grains	1 liter	Measurement	g (integer)		
3	Yield of shelled grains	100 g	Measurement	% (round to the 1st decimal place)		Ratio of shelled grain weight to grain weight
4	Rate of glutinous grains	100 grains, 3 replications	Measurement	% (round to the 1st decimal place)		Based on iodine reaction
5	Stiffness of crust	100 grains	Measurement	kg (round to the 1st decimal place)		By hardness meter

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	100 grain weight	100 grains, 3 replications	Measurement	g (round to the 1st decimal place)		Of ripened grain (15% moisture)
2	Harvest index	3.3 square meters	Measurement	% (round to the 1st decimal place)		Ratio of grain weight to total weight
3	Huskability	Block	Observation	3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard		
4	Grindability	Block	Observation	3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard		Ease of grinding shelled grain
5	Protein content	100 g	Measurement	% (round to the 1st decimal place)		Protein content of ripened grains
6	Carbohydrate content	100 g	Measurement	% (round to the 1st decimal place)		Carbohydrate of ripened grains
7	Milling rate	100 g	Measurement	% (round to the 1st decimal place)		
8	Oil content	10 g, 3 replications	Measurement	% (round to the 1st decimal place)		By Gas chromatography or Soxhley method
9	Fatty acid component	1 g, 3 replications	Measurement	% (round to the 1st decimal place)		By Gas chromatography