

Plant		Job's tears		14(05006)	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	(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	(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	(integer)		Number of sheathing bracts per plant at maturing stage
9	Number of grains per sheathing bract	10 plants	Measurement	(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	(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 (Bipolaris coicis (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 (Ustilago coicis BREFELD)

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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		14(05006)	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