

Plant		Elephant-foot		442	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant type	Block	Observation	3:Upright 5:Semi-upright 7:Horizontal		Plant type of the 2nd year plants at the maximum growth stage
2	Leaf blade/petiole ratio	10 plants	Measurement	(round to the 2nd decimal place)		At the maximum growth stage
3	Petiole process	Block	Observation	0:Absent 9:Present		Presence of petiole process at the maximum growth stage
4	White speckles on petiole	Block	Observation	0:Absent 3:Very few 4:Few 5:Intermediate 6:Many 7:Very many		Presence of white speckles on petiole at the maximum growth stage
5	Distribution of petiole speckles	Block	Observation	0:Absent 5:Spotty 9:Contiguous		Distribution of petiole speckles at the maximum growth stage
6	Corm shape	10 plants	Measurement	(round to the 2nd decimal place)		Shape at harvest time
7	Cormlet shape	Block	Observation	1:Globular 2:Clubbed 3:Spatulate		Shape at harvest time
8	Abscission layer on cormlet	Block	Observation	0:Absent 9:Present		Presence of abscission layer at harvest time
9	Leafing date	Block	Observation	date		Date when approximately 50% of plants in plot have leaved
10	Maturing date	Block	Observation	date		Lodging date in approximately 80% of plants in plot, having yellow leaves and wilted petioles

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Number of cormlet wrinkles	10 plants	Observation	3:Few 5:Intermediate 7:Numerous		Number of cormlet wrinkles at harvest time
2	Epidermal color on cormlet	10 plants	Observation	3:Light brown 4:Slightly light brown 5:Brown 6:Slightly dark brown 7:Dark brown		Epidermal color on cormlet at harvest time
3	Bract color of main bud	10 plants	Observation	1:Light pink 2:Pink 3:Purplish pink (green speckle)		Bract color at planting time
4	Leaflet shape	10 plants	Observation	3:Round 5:Intermediate 7:Long		Shape of leaflet formed near the central point between the base and top points on the leaf blade at the maximum growth stage
5	Leaflet size	10 plants	Observation	3:Small 5:Intermediate 7:Large		Size of the leaflet mentioned above at the maximum growth stage
6	Leaflet color	10 plants	Observation	1:Yellowish green 3:Light green 5:Green 7:Dark green 9:Deep green		Leaflet color at the maximum growth stage
7	Number of leaflets	10 plants	Observation	3:Very few 4:Few 5:Intermediate 6:Many 7:Very many		Leaflet number at the maximum growth stage
8	Ground color of petiole	10 plants	Observation	3:Light green 5:Light pink 7:Pink		Color at the maximum growth stage
9	Size of petiole speckles	10 plants	Observation	3:Small 5:Intermediate 7:Large		Size at the maximum growth stage
10	Color of petiole speckles	10 plants	Observation	3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark		Color at the maximum growth stage
11	Number of corm wrinkles	10 plants	Observation	3:Very few 4:Few 5:Intermediate 6:Many 7:Very many		Number of corm wrinkles at harvest time
12	Epidermal color of corm	10 plants	Observation	3:Light brown 4:Slightly light brown 5:Brown 6:Slightly dark brown 7:Dark brown		Color at harvest time
13	Distribution of sucker sears	10 plants	Observation	3:Dispersed 4:Slightly dispersed 5:Intermediate 6:Slightly concentrated 7:Concentrated		Distribution type at harvest time

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14	Process of sucker	10 plants	Observation	0:Absent 9:Present		Presence of process at harvest time
15	Degree of bud hollowing in corm	10 plants	Observation	3:Shallow 4:Slightly shallow 5:Intermediate 6:Slightly deep 7:Deep		Depth of bud hollow in corm at harvest time
16	Date of emergence	Block	Observation	date		Day when approximately 50% of plants in plot have emerged

Plant		Elephant-foot		442	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Fire blight resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Level of resistance as evaluated by degree of damage on leaflets exposed to strong sunlight
2	Root rot resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Percentage of diseased stocks during growing period (early- to mid-August). Resistance to <i>Pythium aristosporum</i> Vanterpool
3	Leaf blight resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Disease index and percentage of diseased stocks during growing period (early-August or mid-September). Resistance to <i>Pseudomonas pseudoalcaligenes</i> subsp. <i>konjaci</i>
4	Soft rot resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Percentage of diseased stocks during growing period (early-to mid-September). Resistance to <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.
5	Dry rot resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Degree of occurrence at harvest time. Resistance to <i>Fusarium solani</i> (Martius) Apple et. Wollenweber f.sp. <i>radicicola</i> (Woolenweber) Snyder et Hansen. Based on the ``Standard Descriptors of Investigation in Elephant-foot''
6	Mosaic disease resistance	Block	Observation	3:Low 5:Intermediate 7:High		Degree of occurrence at leaf development stage. Resistance to mosaic disease (dasheen mosaic virus and konjac mosaic virus)

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1	Root knot nematode resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Degree of parasitism at the harvest time, resistance to <i>Meloidogyne javanica</i> (Treub) Chitwood.
2	Root rot nematode resistance	Block	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Percentage of damaged stocks during growing period (late-August to early-September). Resistance to <i>Pratylenchus neglectus</i> (Rensch) Chitwood et Oteifa

Plant		Elephant-foot		442	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Corm weight	Block	Measurement	kg/a (round to the 1st decimal place)		
2	Propagation rate of corm	Block	Measurement	(round to the 2nd decimal place)		
3	Yielding percentage of dry matter in corm	10 plants	Measurement	% (round to the 1st decimal place)		Percentage of dry matter in corm immediately after harvest (dry matter weight converted to 14% of water content)
4	Yield of refined flour	10 plants	Measurement	% (round to the 1st decimal place)		(Refined flour weight/Dry matter weight) x 100 (dry matter weight converted to 14% of water content)
5	Viscosity of refined flour	10 plants	Measurement	% (round to the 2nd decimal place)		Viscosity determined with Viscometer BM type (consistency index in 1% flour solution)
6	Percentage of dry matter in corm	10 plants	Measurement	% (round to the 1st decimal place)		Percentage of dry matter in corm immediately after harvest (dry matter weight based on 14% of water content)