

Plant		Fritillaria		498	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Petal length	5 flowers	Measurement	1:<=10 mm 2:11-20 mm 3:21-30 mm 4:31-40 mm 5:41-50 mm 6:51-60 mm 7:61-70 mm 8:>=71 mm		Length of outer petal
2	Petal width	5 flowers	Measurement	1:<=5 mm 2:6-10 mm 3:11-15 mm 4:16-20 mm 5:21-25 mm 6:26-30 mm 7:31-40 mm 8:>=41 mm		Width of outer petal
3	Stem length	5 plants	Measurement	0:<=10 cm 1:11-20 cm 2:21-30 cm 3:31-40 cm 4:41-50 cm 5:51-60 cm 6:61-70 cm 7:71-80 cm 8:81-90 cm 9:>=91 cm		Length from ground level to the first flower
4	Plant height	5 plants	Measurement	0:<=10 cm 1:11-20 cm 2:21-30 cm 3:31-40 cm 4:41-50 cm 5:51-70 cm 6:71-90 cm 7:91-120 cm 8:121-150 cm 9:>=151 cm		The highest part of a plant
5	Leaf length	5 plants	Measurement	1:<=50 mm 2:51-75 mm 3:76-100 mm 4:101-125 mm 5:126-150 mm 6:151-200 mm 7:201-250 mm 8:>=250 mm		The maximum length of a blade
6	Leaf width	5 plants	Measurement	1:<=5 mm 2:6-10 mm 3:11-15 mm 4:16-20 mm 5:21-30 mm 6:31-40 mm 7:41-50 mm 8:>=51 mm		The maximum width of a blade
7	Number of flowers	5 plants	Measurement	0:<=1.0 1:1.1-3.0 2:3.1-4.0 3:4.1-5.0 4:5.1-10.0 5:10.1-20.0 6:20.1-40.0 7:40.1- 60.0 8:61.0-80.0 9:>=80.1		
8	Number of leaves	5 plants	Measurement	0:<=1.0 1:1.1-3.0 2:3.1-5.0 3:5.1-10.0 4:10.1-15.0 5:15.1-20.0 6:20.1-40.0 7:40.1- 60.0 8:60.1-80.0 9:>=80.1		
9	Petal color	5 flowers	Observation	0:White 1:Yellow 2:Yellowish green 3:Pink 4:Red 5:Orange 6:Reddish brown 7:Dark brown 8:Dark purple 9:Other		
10	Flowering time	Block	Observation	date		Date when 50% of plants have flowered (in field)

Plant		Fritillaria		498	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Resistance to diseases (Botrytis)	5 plants	Observation	1:Very susceptible 3:Susceptible 5:Intermediate 7:Resistant 9:Very resistant		Observe the degree of occurrence of Botrytis disease
2	Resistance to diseases (Viral)	5 plants	Observation	1:Very susceptible 3:Susceptible 5:Intermediate 7:Resistant 9:Very resistant		Observe the degree of occurrence of viral disease
3	Sprouting time	5 plants	Observation	date		Date when 50% of plants have sprouted
4	Date of leaf senescence	5 plants	Observation	date		Date when leaves 50% plants have died
5	Pollen fertility	200 grains	Measurement	1:0 2:1-10% 3:11-30% 4:31-50% 5:51-70% 6:71-80% 7:81-90% 8:91-100%		Microscopic observation of pollen grains stained by aceto-carmin
6	Resistance to cold	5 plants	Observation	0:None 3:Low 5:Intermediate 7:High		Degree of survival through the winter in a field

Plant		Fritillaria		498	Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Resistance to diseases (rust)	5 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Observe the degree of occurrence of rust disease
2	Resistance to pests (spider mite)	5 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Observe the degree of occurrence of spider mite
3	Bulb rotting	5 bulbs	Observation	3:Little 5:Intermediate 7:Much		Degree of bulb rotting during storage
4	Rooting time	5 bulbs	Observation	3:Early 5:Intermediate 7:Late		Earliness of rooting time during storage
5	Fructification	5 plants	Observation	0:None 3:Little 5:Intermediate 7:Much		Fructication of seeds in open field
6	Usage	5 plants	Observation	3:Potted flower 5:Both 7:Cut flower both		

Plant		Fritillaria		498	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Fragrance	5 flowers	Sensory	0:None 1:Slight 3:Weak 5:Intermediate 7:Strong		
2	Bulb yield ratio (weight)	5 plants	Measurement	* (round to the 1st decimal place)		Daughter bulb weight/Mother bulb weight
3	Bulb yield ratio (number)	5 plants	Measurement	* (round to the 1st decimal place)		Number of daughter bulbs/number of mother bulbs
4	Flowering period	5 plants	Observation	days (round to the 1st decimal place)		Period from blooming of the first flower until wilting of the terminal flower

Plant		Fritillaria		498	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Forcing ability	5 plants	Observation	3:Low 5:Intermediate 7:High		Degree of forcing ability
2	Late flowering ability	5 plants	Observation	3:Low 5:Intermediate 7:High		Degree of late flowering ability during low-temperature storage
3	Vase life	5 plants	Observation	days (round to the 1st decimal place)		
4	Scale production	5 plants	Observation	3:Low 5:Intermediate 7:High		