

Plant		Plum		55(07013)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Color of one-year-old shoots	10 shoots	Observation	1:Yellowish brown 3:Grayish brown 5:Brown 7:Deep brown 8:Reddish brown 9:Red		Color of the medium sized shoots during dormant season
2	Leaf shape	15 leaves	Observation	1:Ovate 2:Elongate ovate 3:Ovate 4:Elongate ovate 6:Oblanceolate 8:Elliptical 9:Oblong		Two or three leaves from the medium length shoot in July
3	Shape of petiole gland	15 leaves	Observation	1:Absent 3:Globose 5:Intermediate 7:Reniform		Number and shape of petiole gland of adult leaves from April to June
4	Color of petals	10 flowers	Observation	1:White 3:Pale pink 5:Pink 7:Deep pink		Color of petals just after blooming
5	Shape of petals	10 flowers	Observation	3:Rounded 4:Round-elliptical 5:Elliptical 7:Oblong ovate 9:Ovate		Shape of petals just after blooming
6	Amount of pollen	10 flowers	Observation	2:Almost absent 3:Little 5:Medium 7:Much		Amount of pollen just after anthesis
7	Fruit shape	30 fruits	Observation	1:Slightly flat 3:Rounded 5:Round elliptical 6:Elliptical 7:Ovate 9:Elongated		Height and width of matured fruit are measured. Height/width ratio is classified.
8	Ground color of fruit skin	30 fruits	Observation	1:Light green 2:Green 3:Greenish yellow 4:Yellow 5:Deep yellow 7:Pink 8:Red 9:Bluish purple		Ground color of matured fruit skin
9	Flesh color	10 fruits	Observation	1:Creamy white 2:Greenish yellow 3:Green 4:Light yellow 5:Yellow 6:Orange yellow 7:Red 8:Deep red 9:Blackish purple		Color of flesh just after cutting. Fully ripe fruits
10	Stone adherence to fully ripe fruit	10 fruits	Observation	1:Freestone 3:Semi freestone 5:Semi clingstone 7:Clingstone		Fully ripe fruit. Freestone means easily separated from flesh.
11	Shape of stone	10 fruits	Observation	1:Slightly flat 2:Rounded 3:Ovate 5:Elliptical 7:Elongated		Height/width are measured.

Plant		Plum		55(07013)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Tree habit	2 trees	Observation	3:Upright 5:Intermediate 7:Spreading 9:Weeping		Tree shape, tree height and crotch angle of branches
2	Tree vigor	2 trees	Observation	3:Low 5:Intermediate 7:High		Shoot length and canopy size
3	Number of shoots	2 trees	Observation	3:Few 5:Intermediate 7:Many		Shoot number from top of subscaffold. Few:<=20, intermediate:21-30, many:>=31
4	Number of spurs	10 shoots	Observation	3:Few 5:Intermediate 7:Many		Number of short branches less than 20 cm on two-year-old shoots. Few:<=10, intermediate:11-15, many:>=16
5	Number of flower buds	10 shoots	Observation	3:Few 5:Intermediate 7:Many		Flower number per 10 cm are counted during dormant season. Few:<=10, intermediate:11-20, many:>=21.
6	Degree of physiological fruit drop	2 trees	Observation	3:Low 5:Intermediate 7:High		Ratio of number of harvested fruits/total fruits just after thinning
7	Productivity	2 trees	Observation	3:Low 5:Intermediate 7:High		Total weight of harvested fruits
8	Harvest season	2 trees	Observation	3:Early 5:Mid season 7:Late		The date when half of all fruits have been harvested
9	Season of defoliation	2 trees	Observation	3:Early 5:Intermediate 7:Late		The date when 75% of leaves have fallen
10	Resistance to bacterial shot hole	2 trees	Observation	3:Low 5:Intermediate 7:High		Extent of infected leaves and fallen leaves

Plant		Plum		55(07013)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Uniformity of fruit	10 fruits	Observation	3:Low 5:Intermediate 7:High		Size and shape of fully ripe fruit
2	Coloring of fruit skin	10 fruits	Observation	1:Green 3:Yellow 4:Reddish yellow 5:Red 7:Reddish purple 9:Blackish purple		Color of fully ripe fruit skin
3	Degree of bloom of skin	10 fruits	Observation	3:Low 5:Intermediate 7:High		Degree of bloom on skin of fully ripe fruits
4	Susceptibility to skin cracking	10 fruits	Observation	1:None 3:Low 5:Intermediate 7:High		Ratio of cracked fruits/10 fruits
5	Degree of hollowness of flesh	10 fruits	Observation	1:None 3:Low 5:Intermediate 7:High		Degree of hollowness around the top of stone
6	Firmness of flesh	5 fruits	Sensory	3:Soft 5:Intermediate 7:Hard		Determined by organoleptic test of fully ripe fruits
7	Flesh texture	5 fruits	Sensory	3:Coarse 5:Intermediate 7:Fine		Determined by organoleptic test of fully ripe fruits
8	Sweetness of juice	10 fruits	Measurement	3:Low 5:Intermediate 7:High 9:Very high		Brix value. Low:<=9.9%, intermediate:10.0-12.9%, high:13.0-14.9%, very high:>=15.0%
9	Acidity of juice	5 fruits	Measurement	2:Very low 3:Low 5:Intermediate 7:High 9:Very high		Mesured with pH meter. Very low:>=5.0, low:4.5-4.9, intermediate:4.0-4.4, high:3.7-3.6, very high:<=3.4
10	Aroma	5 fruits	Sensory	1:None 3:Little 5:Intermediate 7:Strong		Determined by organoleptic test for fully ripe fruit
11	Juiciness of flesh	5 fruits	Observation	3:Little 5:Intermediate 7:Juicy		Amount of juice extracted from fully ripe fruits
12	Quality of fruit	10 fruits	Observation	3:Low 5:Intermediate 7:High		General evaluation by appearance, eating quality and flesh texture
13	Shelf life of fruit	20 fruits	Observation	3:Short 5:Intermediate 7:Long		Time when half of 20 fruits stored at room temperature became too soft and damaged.

Plant	Plum	55(07013)	Tertiary essential character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
14	Size of stone	10 fruits	Observation	1:Very small 3:Small 5:Intermediate 6:Slightly large 7:Large 9:Very large	Evaluated by stone height x stone width

Plant	Plum	55(07013)	Tertiary optional character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Astringency	5 fruits	Sensory	1:None 2:Very low 3:Low 5:Intermediate 7:High	Determined by organoleptic test for fully ripe fruits