

Plant		Loquat		63(07021)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Tree attitude	2 trees	Observation	3:Upright 5:Intermediate 7:Spreading		Determine based on the height/width ratio of tree crown or crotch angle
2	Tree vigor	2 trees	Observation	3:Low 5:Intermediate 7:High		Determine during the dormant period of shoot
3	Density of shoots	2 trees	Observation	3:Low 5:Intermediate 7:High		Determine based on the number of shoots per tree crown during the dormant period of shoot elongation
4	Amount of pubescence on young leaves	10 shoots	Observation	3:Low 5:Intermediate 7:High		Determine based on the density of pubescence on young leaves during the early stage of shoot elongation
5	Shape of leaf blade	15 leaves	Measurement	3:Narrow 5:Intermediate 7:Broad		Determine based on the width/length ratio for fully developed leaves which appeared in the middle part of the central shoots. Narrow width/length: ≤ 0.30 , intermediate:0.31-0.35, 7:broad: ≥ 0.36
6	Shape of flower cluster	10 clusters	Observation	3:Conical 5:Intermediate 7:Cylindrical		Observe clusters on normal central shoots during the early flowering season
7	Flower size	10 clusters	Observation	3:Small 5:Intermediate 7:Large		Observe flowers of clusters on moderately growing central shoots at full bloom
8	Petal color	10 clusters	Observation	3:White 5:Yellowish white 7:Yellow		Observe flowers of clusters borne on normal central shoots at full bloom
9	Fruit shape in longitudinal section	20 fruits	Observation	1:Oblate 2:Round 3:Obovate 4:Round elliptical 5:Long obovate 6:Elliptical		Observe 20 typical fruits at harvest
10	Color of fruit skin	20 fruits	Observation	1:White 3:Yellowish white 5:Yellow 7:Orange yellow 9:Orange		Observe typical fruits based on examination or comparison with the color chart of R. H. S. at harvest

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11	Color of fruit flesh	20 fruits	Observation	1:White 3:Yellowish white 5:Yellow 7:Orange yellow 9:Orange	Observe typical fruits at harvest

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Shape of leaf blade in cross section	20 leaves	Observation	3:Inflected 5:Plane 7:Recurved		Observe fully developed leaves in the middle part of central shoots in winter
2	Luster of leaf blade	20 leaves	Observation	0:Absent 9:Present		Observe fully developed leaves in the middle part of central shoots in winter
3	Seed shape in longitudinal section	20 fruits	Observation	1:Round 2:Obovate 3:Round elliptical 4:Long obovate 5:Elliptical		Observe seeds of typical fruits at harvest
4	Seed shape in cross section	20 fruits	Observation	3:Acutely flabellate 5:Flabellate 7:Obtusely flabellate 9:Irregular		Observe seeds of typical fruits at harvest
5	Number of small spots on seed surface	20 fruits	Observation	0:Absent 3:Few 7:Many		Observe seeds of typical fruits at harvest

Plant		Loquat		63(07021)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Time of flower budding	2 trees	Observation	3:Early 5:Intermediate 7:Late		Determine based on the date when flower buds become apparent on 10% of central normal shoots
2	Flowering time	2 trees	Observation	3:Early 5:Intermediate 7:Late		Determine based on the date when 50% of flower buds bloomed on central normal shoots
3	Bearing of central shoots	50 central shoots	Measurement	3:Little 5:Intermediate 7:Much		Determine based on the number of bearing shoots per 50 central shoots
4	Bearing of lateral shoots	50 lateral shoots	Measurement	3:Little 5:Intermediate 7:Much		Determine based on the number of bearing shoots per 50 lateral shoots
5	Number of flowers in flower cluster	20 flower clusters	Measurement	3:Few 5:Intermediate 7:Many		Count for 20 flower clusters borne on normal central shoots at early bloom. Few:<=80 flowers/flower cluster, intermediate:81-120, many>=121
6	Maturation period	All the fruits	Measurement	1:Very early 3:Early 5:Intermediate 7:Late 9:Very late		Determine based on the date when the largest number of fruits is harvested
7	Fruit size	20 fruits	Measurement	1:Very small 3:Small 5:Intermediate 7:Large 9:Very large		Calculate based on the average weight of fruit which is measured for 20 fruits borne on at least five clusters of normal central shoots. Very small:<=20.0 g, small:20.1-40.0 g, intermediate:40.1-60.0 g, large:60.1-100.0 g, very large:>=100.1 g
8	Shape of fruit apex	20 fruits	Observation	3:Concave 5:Flat 7:Convex		Observe 20 typical fruits
9	Calyx cavity of fruit	20 fruits	Observation	3:Closed 5:Slightly open 7:Open		Observe 20 typical fruits

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
10	Cold tolerance	10 flower clusters	Measurement	3:Low 5:Intermediate 7:High		Determine based on the survival rate of young fruits borne on flower clusters exposed to low temperature. Survival of fruits is confirmed after cutting them.

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Duration of flowering	2 trees	Observation	3:Short 5:Intermediate 7:Long		Determine based on the period from 5-10% flowering to 90% flowering
2	Adhesion of fruit to peduncle	5 flower clusters	Observation	3:Weak 5:Intermediate 7:Strong		Determine based on the number of fruits dropped by swinging clusters with normal ripe fruits
3	Uniformity of fruit size	5 flower clusters	Observation	3:Low 5:Intermediate 7:High		Observe 15 fruits borne on five clusters at harvest
4	Canker infection	2 trees	Observation	0:None 3:Low 5:Intermediate 7:High		Determine based on natural infection or artificial inoculation

Plant		Loquat		63(07021)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Proportion of edible flesh	20 fruits	Measurement	3:Low 5:Intermediate 7:High		Calculate based on percentage of flesh weight to fruit weight for typical fruits at harvest. Low:<=60.0%, intermediate:60.1-70.0%, high:>=70.1%
2	Ease of fruit peeling	20 fruits	Observation	3:Easy 5:Intermediate 7:Hard		Determine by peeling typical fruits by hand from stalk end at harvest
3	Number of seeds	20 fruits	Measurement	3:Few 5:Intermediate 7:Many		Count the average number of seeds per fruit at harvest. Few:<=3.0, intermediate:3.1-5.0, many:>=5.1
4	Seed weight	20 fruits	Measurement	3:Light 5:Intermediate 7:Heavy		Measure for seeds of 20 fruits at harvest. Light:<=2.50 g, intermediate:2.51-3.00 g, heavy:>=3.01 g
5	Thickness of flesh	20 fruits	Measurement	3:Thin 5:Intermediate 7:Thick		Measure thickness of flesh at equator of fruits at harvest. Thin:<=7.0 mm, intermediate:7.1-10.0 mm, thick:>=10.1 mm
6	Firmness of flesh	20 fruits	Sensory	3:Soft 5:Intermediate 7:Firm		Determine based on sensory test for normal ripe fruits
7	Brix value of juice	20 fruits	Measurement	3:Low 5:Intermediate 7:High		Measure with refractometer for typical fruits at harvest. Low:<=12.0, intermediate:12.1-14.0, high:>=14.1
8	Acidity of juice	20 fruits	Measurement	3:Low 5:Intermediate 7:High		Measure by neutralization titration for typical fruits at harvest. Express in % of malic acid. Low:<=0.30%, intermediate:0.31-0.50%, high:>=0.51%
9	Taste of fruit	20 fruits	Sensory	3:Low 5:Intermediate 7:High		Evaluate based on sensory test for normal ripe fruits

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
10	Yield of fruit	All the fruits	Measurement	3:Low 5:Intermediate 7:High		Determine based on the annual average yield per tree for four years
11	Dark purple spots on fruit surface	2 trees	Observation	0:Absent 3:Few 5:Intermediate 7:Many		Observe all the fruits at harvest
12	Green spots on fruit surface	2 trees	Observation	0:Absent 3:Few 5:Intermediate 7:Many		Observe all the fruits at harvest
13	Freckles on fruit surface	2 trees	Observation	0:Absent 3:Few 5:Intermediate 7:Many		Observe all the fruits at harvest

Plant		Loquat		63(07021)	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Palatable time of fruit	2 trees	Sensory	3:Unripe 5:Intermediate 7:Full ripe		Determine based on sensory test at different maturation stages of fruit
2	Flesh texture	20 fruits	Sensory	3:Coarse 5:Intermediate 7:Fine		Determine based on sensory test for normal ripe fruits
3	Amount of juice	20 fruits	Sensory	3:Little 5:Intermediate 7:Much		Determine based on sensory test for normal ripe fruits
4	Flavor of fruit	20 fruits	Sensory	0:Absent 3:Weak 7:Strong		Determine based on sensory test for normal ripe fruits
5	Browning of calyx	2 trees	Observation	0:Absent 3:Some 5:Intermediate 7:Much		Observe all the fruits at harvest
6	Fruit cracking	2 trees	Observation	0:Absent 3:Little 5:Intermediate 7:Much		Determine all the fruits at harvest