

Plant		Persimmon		59(07017)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Presence of thorns	10 shoots	Observation	1:Absent 2:Present		Presence of thorn on shoot
2	Leaf size	20 leaves	Measurement	3:Small 5:Intermediate 7:Large		Leaf size measured in summer. Small:<=90 square cm, intermediate:91-130 square cm, large:>=130 square cm
3	Leaf shape	20 leaves	Observation	3:Ovate 5:Elliptical 7:Obovate		The same leaves used in leaf size
4	Sex expression	Whole tree	Observation	1:Only female 2:Female and male 3:Female,male and perfect 4:Dioecism		Observe at flowering time. Evaluation for sex expression and number of male flowers at different years does not necessarily match due to possible yearly fluctuation of male flowers.
5	Fruit shape in longitudinal section	20 fruits	Observation	1:Wedge-shaped 2:Obovoid 3:Elliptical 4:Ovoid 5:Round 6:Square 7:Short conical 9:Flat		Evaluate the same fruit used in fruit size
6	Fruit shape in cross section	20 fruits	Observation	3:Elliptical 5:Round 6:Intermediate 7:Square		Evaluate the same fruit used in fruit size
7	Skin color of fruit at maturity	20 fruits	Observation	1:Greenish yellow 2:Orange-yellow 4:Orange 6:Red-orange 8:Red 9:Black		Evaluate the same fruit used in fruit size
8	Classification based on astringency	10 fruits	Others	1:PCA 2:PVA 3:PVNA 4:PCNA		By sensory test and flesh color
9	Grooves at fruit bottom	20 fruits	Observation	1:Absent 2:Present		Evaluate the same fruit used in fruit size
10	Grooves on fruit side	20 fruits	Observation	1:Absent 3:1-3 5:4 7:>=5		Evaluate the same fruit used in fruit size
11	Shape of calyx	20 fruits	Measurement	1:Very slender 3:Slender 5:Intermediate 7:Wide 9:Very wide		Based on width/length. Very slender:<=1.0, slender:1.01-1.20, intermediate:1.21-1.50, wide:1.51-2.00, very wide:>=2.01

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12	Fruit size	20 fruits	Measurement	1:Very small 3:Small 5:Intermediate 7:Large 9:Very large		Very small:<=60g, small:61-140g, intermediate:141-220g, large:221-300g, very large:>=301g. Leave/fruit ratio should be adjusted to 15-20.

Plant		Persimmon		59(07017)	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Roughness of bark	2 trees	Observation	3:Rough 5:Intermediate 7:Smooth		Evaluate tree trunk portion
2	Tree size	2 trees	Observation	1:Small 2:Large		
3	Secondary fruit	20 fruits	Observation	1:Absent 2:Present		Secondary fruit is fruit formed within fruit.
4	Grooves at fruit apex	10 fruits	Observation	1:Absent 2:Present		
5	Shape of hollow at fruit bottom from lateral view	10 fruits	Observation	3:Swollen 5:Flat 7:Hollow like U letter		
6	Seed shape	20 seeds	Observation	1:Seedless 2:Long 3:Long triangular 4:Triangular 5:Elliptical 6:Rectangular 7:Rectangular-Round 8:Round		
7	Seed color	20 seeds	Observation	1:Seedless 3:Light 5:Intermediate 7:Dark		Seed color at fruit ripening time

Plant		Persimmon		59(07017)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Tree attitude	2 trees	Observation	3:Spreading 5:Intermediate 7:Upright		
2	Vigor of tree	2 trees	Observation	3:Low 5:Intermediate 7:High		Judge from shoot strength
3	Sprouting time	2 trees	Observation	1:Very early 3:Early 5:Intermediate 7:Late 9:Very late		Very early:Hakuhishi, early:Hiratanenashi, intermediate:Jirou, late:Fuyuu, very late:Gosho
4	Flowering time of female flowers	2 trees	Observation	3:Early 5:Intermediate 7:Late 9:No female flowers		Time when 80% of flowers blossom. Early:Hiratanenashi, intermediate:Jirou, late:Fuyuu.
5	Flowering time of male flowers	2 trees	Observation	3:Early 5:Intermediate 7:Late 9:No male flowers		Time when 80% of flowers blossom. Early:Akagaki, intermediate:Zenjimaruru, late:Gosho
6	Number of female flowers	2 trees	Observation	3:Few 5:Intermediate 7:Many		Number of female flowers in a tree
7	Number of male flowers	2 trees	Observation	1:None 3:Few 5:Intermediate 7:Many		Number of male flowers in a tree. Evaluation for sex expression and number of male flowers at different years does not necessarily match due to possible yearly fluctuation of male flowers.
8	Fruit ripening time	2 trees	Observation	2:Very early 3:Early 4:Semi-early 5:Intermediate 6:Semi-late 7:Late 8:Very late		Early:Izu, intermediate:Matsumotowasefuyuu, late:Fuyuu.

Plant	Persimmon	59(07017)	Secondary optional character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Density of shoots	2 trees	Observation	3:Low 5:Intermediate 7:High	Low:Gionbou, intermediate:Fuyuu, high:Shinshuu

Plant		Persimmon		59(07017)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Curvature of calyx	20 fruits	Observation	3:Flat 5:Semi-warped 7:Warped		
2	Brown specks in flesh	20 fruits	Observation	1:Absent 3:Few 5:Intermediate 7:Many		Brown specks in flesh. Absent:Saijou, few:Jirou, Fuyuu, intermediate:Shougatsu, many:Nishimurawase, Zenjimarū.
3	Flesh texture		Sensory	3:Course 5:Intermediate 7:Fine 9:Very fine		Flesh texture based on sensory test. Course:Nishimurawase, intermediate:Shougatsu, fine:Fuyuu, Hiratanenashi, very fine:
4	Soluble solids concentration	20 fruits	Measurement	* (round to the 1st decimal place)		Average of 20 fruits, astringent fruit are measured after removing astringency.
5	Juiciness		Sensory	3:Low 5:Intermediate 7:High		Determine by sensory test. Low:Suruga, intermediate:Nishimurawase, high:Fuyuu, Hiratanenashi
6	Seeds per fruit	20 fruits	Measurement	* (round to the 1st decimal place)		Average of 20 fruits, including aborted seeds
7	Cracking at fruit apex	30 fruits	Observation	1:None 3:Slight 5:Intermediate 7:Heavy		Judge based on the rate of occurrence and cracking size
8	Cracking at calyx end	30 fruits	Observation	1:None 3:Slight 5:Intermediate 7:Heavy		Judge based on the rate of occurrence and cracking size
9	Stain of fruit skin	30 fruits	Observation	3:Slight 5:Intermediate 7:Heavy		Number of fruits with stained skin. Slight:<=25%, intermediate:25-74%, heavy:>=75%.
10	Physiological fruit drop at early stage	30 fruits	Observation	3:Low 5:Intermediate 7:High		Observe at 1 to 1.5 months after anthesis. Pollinizer or artificial pollination is needed.
11	Physiological fruit drop at late stage	30 fruits	Observation	3:Low 5:Intermediate 7:High		Observe after August
12	Productivity	2 trees	Observation	3:Low 5:Intermediate 7:High		Judge based on number of female flowers and physiological fruit drop. Low:Gosho, high:Fuyuu

Plant		Persimmon		59(07017)	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Average fruit weight	20 fruits	Measurement	g (integer)		Average fruit weight at the fruit maturity time. Leaf/fruit ratio should be adjusted to 15-20.
2	Uniformity of fruit size	20 fruits	Observation	3:Low 5:Intermediate 7:High		Judge based on the uniformity of fruit shape and size
3	Circular grooves at fruit apex	30 fruits	Observation	1:None 3:Few 5:Intermediate 7:Many		Determine based on the number of fruit having circular grooves. Few:<=30%, intermediate:31-79%, many:>=80%
4	Mealiness of flesh		Sensory	3:None 5:Slight 7:High		Mealiness based on sensory test. None:Fuyuu, intermediate:Saburouza, high:Shintou