

Plant		Fig		60(07018)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Tree attitude	3 trees	Observation	3:Spread 5:Intermediate 7:Upright		Observe in dormant season
2	Tree vigor	3 trees	Observation	3:Weak 5:Intermediate 7:Strong		Observe trunk width and branch in the dormant season
3	Shoot density	3 trees	Observation	3:Sparse 5:Intermediate 7:Dense		Observe in dormant season
4	Length of shoots	10 shoots	Measurement	1:Very short 3:Short 5:Intermediate 7:Long 9:Very long		Observe moderate shoots. Very short:<=60.0 cm, short:60.1-100.0 cm, intermediate:100.1-140.0 cm, long:140.1-180.0 cm, very long:>=180.1 cm
5	Thickness of shoots	10 shoots	Measurement	1:Very thin 3:Thin 5:Intermediate 7:Thick 9:Very thick		Observe at the middle portion on moderate shoots. Very thin:<=8.0 mm, thin:8.1-12.0 mm, intermediate:12.1-16.0 mm, thick:16.1-20.0 mm, very thick:>=20.1 mm
6	Length of internodes in new shoots	10 shoots	Measurement	1:Very short 3:Short 5:Intermediate 7:Long 9:Very long		Shoot length/numbers of node on moderate new shoots. Very short:<=3.5 cm, short:3.6-4.0 cm, intermediate:4.1-4.5 cm, long:4.6-5.0 cm, very long:>=5.1 cm
7	Color of shoots	10 shoots	Observation	1:Light gray-brown 2:Gray-green 3:Gray-green-brown 4:Gray-brown 5:Brown 6:Dark brown		Observe at the middle portion of average shoots in dormant season
8	Shape of lenticel in shoot	10 shoots	Observation	1:Strip 2:Strip-oblong 3:Oblong 4:Oblong-ellipse 5:Ellipse 6:Ellipse-circle 7:Circle		Observe at the middle portion of average shoots in dormant season
9	Size of lenticel	10 shoots	Observation	3:Small 5:Intermediate 7:Large		Observe at the middle portion of average shoots in dormant season
10	Shape of leaf	10 leaves	Observation	1:Orbicular 2:Orbicular-cordate 3:Cordate 4:Ovate 5:Oval		Observation leaves at the middle portion on moderate shoots in July.
11	Size of leaf	10 leaves	Observation	1:Small 3:Intermediate 5:Large 7:Very large		Observe leaves at the middle portion of average shoots in July

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12	Shape of fruit	10 fruits	Observation	1:Depressed orbicular 2:Orbicular 3:Ovate 4:Long ovate 5:Bent long ovate		Observe matured fruit at the middle portion on shoots moderately bearing fruit
13	Size of fruit	10 fruits	Measurement	1:Very small 3:Small 5:Intermediate 7:Large 9:Very large		Observe matured fruit at the middle portion of shoots moderately bearing fruit. Very small:<=15 g, small:16-40 g, intermediate:41-75 g, large:76-110 g, very large:>=111 g
14	Length of peduncle	10 fruits	Measurement	1:Very short 3:Short 5:Intermediate 7:Long 9:Very long		Observe matured fruit in the middle portion of shoots moderately bearing fruit. Very short:<=3.0 mm, short:3.1-7.0 mm, intermediate:7.1-11.0 mm, long:11.1-15.0 cm, very long:>=15.1 mm
15	Color of fruit skin	10 fruits	Observation	1:Light green 2:Yellowish green 3:Yellowish brown 4:Orange-Yellowish brown 5:Orange-Brown 6:Reddish brown 7:Red-Purple 8:Purple-Brown 9:Purple-Black		Observe matured fruit at the middle portion of shoots moderately bearing fruit
16	Amount of fruit ribbing	10 fruits	Observation	3:Sparse 5:Intermediate 7:Dense		Observe matured fruit at the middle portion of shoots moderately bearing fruit
17	Size of eye	10 fruits	Measurement	3:Small 5:Intermediate 7:Large		Observe matured fruit at the middle portion of shoots moderately bearing fruit. Small:<=6.0 mm, intermediate:6.1-8.0 mm, large:>=8.1 mm
18	Opening of scale	10 fruits	Observation	3:Closed 5:Intermediate 7:Open		Observe matured fruit at the middle portion of shoots moderately bearing fruit
19	Color of fruit receptacle	10 fruits	Observation	1:Milky white 2:Grayish white 3:Light yellowish white 4:Light pinkish white 5:Light pink		Observe matured fruit at the middle portion of shoots moderately bearing fruit
20	Thickness of fruit receptacle	10 fruits	Observation	3:Thin 5:Intermediate 7:Thick		Observe matured fruit at the middle portion of shoots moderately bearing fruit

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21	Sweetness (Brix)	10 fruits	Measurement	3:Low 5:Intermediate 7:High		Observe matured fruit at the middle portion on shoots moderately bearing fruit. Low:<=15.0%, intermediate:15.1-18.0%, high:>=18.1%
22	Acidity (pH)	10 fruits	Measurement	3:Low 5:Intermediate 7:High		Observe matured fruit at the middle portion of shoots moderately bearing fruit. Low:>=5.2, intermediate:5.1-4.2, high:<=4.2

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1	Tree size	3 trees	Observation	3:Small 5:Intermediate 7:Large		Observe in dormant season
2	Number of lenticels	10 shoots	Observation	3:Few 5:Intermediate 7:Many		Observe at the middle portion of moderate shoots in dormant season
3	Shape of terminal buds	10 buds	Observation	3:Short triangle 5:Triangle 7:Long triangle		Observe in dormant season
4	Color of terminal buds	10 buds	Observation	1:Yellowish green 2:Faint yellowish brown 3:Yellowish brown 4:Reddish brown 5:Dark reddish brown		Observe in dormant season
5	Number of lobes in leaves	10 leaves	Observation	1:0 2:0-3 3:3 4:3-5 5:5 6:5-7 7:7		Observe at the middle portion of average shoots
6	Depth of sinus	10 leaves	Observation	1:None 3:Shallow 5:Intermediate 7:Deep 9:Very deep		Observe at the middle portion of average shoots
7	Shape of lobes	10 leaves	Observation	1:Rhombic 2:Broad spatulate 3:Broad long spatulate 4:Narrow long spatulate 5:Elliptical 6:Oblong 7:Cuneate		Observe at the middle portion of average shoots
8	Amount of protuberance at base of sinus	10 leaves	Measurement	1:None 3:Little 5:Intermediate 7:Much		Observe at the middle portion on moderate shoots. Number of protuberances/leaves x 100. Absent:0%, little:1-30%, intermediate:31-70%, much:>=71%
9	Shape of leaf tips	10 leaves	Observation	1:Obtuse 2:Acute 3:Acuminate		Observe at the middle portion of average shoots
10	Shape of leaf base	10 leaves	Observation	1:Decurrent 2:Truncate 3:Cordate 4:Sagittate 5:Overlapped		Observe at the middle portion of average shoots
11	Color of leaf	10 leaves	Observation	3:Pale green 5:Green 7:Deep green		Observe at the middle portion of average shoots in July
12	Pubescence on adaxial surface of leaf	10 leaves	Observation	3:Slight 5:Intermediate 7:Much		Observe at the middle portion of average shoots in July

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13	Length of petiole	10 leaves	Measurement	1:Very short 3:Short 5:Intermediate 7:Long 9:Very long		Observe at the middle portion of average shoots in July. Very short:<=6.0 mm, short:6.1-9.0 mm, intermediate:9.1-12.0 mm, long:12.1-15.0 mm, very long:>=15.1 mm
14	Thickness of petioles	10 leaves	Measurement	3:Thin 5:Intermediate 7:Thick		Observe at the middle portion of average shoots in July. Thin:<=5.0 mm, intermediate:5.1-6.0 mm, thick:>=6.1 mm
15	Thickness of peduncle	10 fruits	Measurement	3:Thin 5:Intermediate 7:Thick		Observe matured fruit at the middle portion on shoots moderately bearing fruit. Thin:<=5.0 mm, intermediate:5.1-7.0 mm, thick:>=7.1 mm
16	Number of blooms	10 fruits	Observation	3:Few 5:Intermediate 7:Many		Observe matured fruit at the middle portion of shoots moderately bearing fruit
17	Distinctness of fruit ribs	10 fruits	Observation	3:Indistinct 5:Intermediate 7:Distinct		Observe matured fruit at the middle portion of shoots moderately bearing fruit
18	Distinctness of dots	10 fruits	Observation	3:Indistinct 5:Intermediate 7:Distinct		Observe matured fruit at the middle portion of shoots moderately bearing fruit
19	Density of dots	10 fruits	Observation	3:Sparse 5:Intermediate 7:Dense		Observe matured fruit at the middle portion of shoots moderately bearing fruit
20	Size of dots	10 fruits	Observation	3:Small 5:Intermediate 7:Large		Observe matured fruit at the middle portion of shoots moderately bearing fruit
21	Color of eye	10 fruits	Observation	1:Light yellowish white 2:Light pink 3:Pink 4:Pink-Purple 5:Red 6:Red-Purple 7:Dark red-purple 8:Purple-Black		Observe matured fruit at the middle portion of shoots moderately bearing fruit

Plant		Fig		60(07018)	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
22	Size of scales	10 fruits	Measurement	1:Very small 3:Small 5:Intermediate 7:Large 9:Very large		Observe matured fruit at the middle portion of shoots moderately bearing fruit. Very small:<=1.0 mm, small:1.1-1.5 mm, intermediate:1.6-2.0 mm, large:2.1-2.5 mm, very large:>=2.6 mm
23	Color of scales	10 fruits	Observation	1:Light yellowish white 2:Light yellowish green 3:Light pink 4:Pink 5:Pink-Purple 6:Deep pink-Purple 7:Red-Purple 8:Dark red-Purple 9:Purple-Black		Observe matured fruit at the middle portion of shoots moderately bearing fruit
24	Thickness of skin	10 fruits	Observation	3:Thin 5:Intermediate 7:Thick		Observe matured fruit at the middle portion of shoots moderately bearing fruit
25	Color of pistils	10 fruits	Observation	1:Light yellowish brown 2:Light pink 3:Light purple 4:Light red-Purple 5:Red-Orange 6:Red 7:Dark red		Observe matured fruit at the middle portion of shoots moderately bearing fruit
26	Space at the center of fruit	10 fruits	Observation	3:Small 5:Intermediate 7:Large		Observe matured fruit at the middle portion of shoots moderately bearing fruit
27	Thickness of pistils	10 fruits	Measurement	3:Thin 5:Intermediate 7:Thick		Observe matured fruit at the middle portion on shoots moderately bearing fruit. Thin:<=5.0 mm, intermediate:5.1-12.0 mm, thick:>=12.1 mm
28	Texture of flesh	10 fruits	Sensory	3:Coarse 5:Intermediate 7:Fine		Feeling in mouth when eating matured fruit from the middle portion of shoots moderately bearing fruit
29	Firmness of flesh	10 fruits	Sensory	3:Soft 5:Intermediate 7:Firm		Feeling in mouth when eating matured fruit from the middle portion of shoots moderately bearing fruit
30	Fruit juice	10 fruits	Sensory	3:Little 5:Intermediate 7:Much		Feeling in mouth when eating matured fruit from the middle portion of shoots moderately bearing fruit

Plant		Fig		60(07018)	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
31	Flavor	10 fruits	Sensory	1:None 3:Weak 5:Intermediate 7:Rich		Feeling in mouth when eating matured fruit from the middle portion of shoots moderately bearing fruit

Plant		Fig		60(07018)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Date of germination	3 trees	Observation	3:Early 5:Intermediate 7:Late		The season at which green leaves are observed on the majority of terminal buds
2	Cutting ability	20 cuttings	Measurement	1:None 3:Low 5:Intermediate 7:High		Observation in autumn season after cutting in spring season. None:0%, low:<=30%, intermediate:31-70%, high:>=71%
3	Growth of plants propagated by cutting	20 cuttings	Measurement	3:Weak 5:Intermediate 7:Strong		Observe in autumn after cutting in spring. Weak:<=100 cm, intermediate:101-150 cm, strong:>=151 cm
4	Cold hardiness	20 branches	Observation	3:Low 5:Intermediate 7:High		Observe nursery trees by cutting and trees preserved in field
5	Resistance to Phytophthora rot	3 trees	Observation	3:Low 5:Intermediate 7:High		Observation of trees in field
6	Resistance to Anthracnose	3 trees	Observation	1:Completely low 3:Low 5:Intermediate 7:High		Observation on nursery trees by cutting and trees in field

Plant		Fig		60(07018)	Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Period of falling of scales	3 trees	Observation	3:Early 5:Intermediate 7:Late		The period in which majority of scales drops
2	Expansion period of the 1st leaf	3 trees	Observation	3:Early 5:Intermediate 7:Late		The period in which majority of the first leaves expanded in new shoots
3	Period of falling of leaves	3 trees	Observation	3:Early 5:Intermediate 7:Late		The season at which about 70% of leaves drop
4	Amount of roots in cutting	20 cuttings	Observation	3:Few 5:Intermediate 7:Many		Observation in autumn after cutting in spring

Plant		Fig		60(07018)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Number of first-crop fruits	20 branches	Measurement	1:None 3:Few 5:Intermediate 7:Many		Observation at 20 shoots moderately bearing fruit in the middle of May. Fruit/branch; None:0, few:<=0.5, intermediate:0.6-1.5, many:>=1.6
2	Number of second-crop fruits	10 branches	Measurement	1:None 3:Few 5:Intermediate 7:Many 9:Very many		Observation at 10 shoots moderately bearing fruit in late July. Fruit/nodes x 100; None:0%, few:<=20%, intermediate:21-40%, many:41-60%, very many:>=61%
3	Number of matured fruit-crop fruits	20 branches	Measurement	1:None 3:Few 5:Intermediate 7:Many		Observation at 20 shoots moderately bearing fruit in the middle of May. Matured fruit/total fruit x 100; None:0%, few:<=30%, intermediate:31-60%, many:>=61%
4	Number of matured second-crop fruits	10 branches	Measurement	1:None 3:Few 5:Intermediate 7:Many 9:Very many		Observation at 10 shoots moderately bearing fruit in the late of July. Matured fruit/total fruit x 100; None:0%, few:<=10%, intermediate:11-40%, many:41-70%, very many:>=71%
5	Yield of first-crop fruit	20 branches	Measurement	1:Nothing 3:Low 5:Intermediate 7:High		Observation at 20 shoots moderately bearing fruit in the middle of May. Nothing:0, few:<=0.5 kg, intermediate:0.6-2.0 kg, many:>=2.1 kg
6	Yield of second-crop fruit	10 branches	Measurement	1:Nothing 3:Low 5:Intermediate 7:High 9:Very high		Observation at 10 shoots moderately bearing fruit in the late of July. Nothing:0, few:<=0.5 kg, intermediate:0.6-2.0 kg, many:2.1-4.0 kg, very many:>=4.1 kg

Plant		Fig		60(07018)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
7	Harvesting time of first-crop fruit	20 branches	Measurement	3:Early 5:Intermediate 7:Late		The season at which matured first-crop fruit is first harvested at 20 shoots moderately bearing fruit. Early:from mid June, intermediate:from late June, late:from early July
8	Harvesting time of second-crop fruit	10 branches	Measurement	3:Early 5:Intermediate 7:Late 9:Very late		The season at which matured first-crop fruit is first harvested from 20 shoots moderately bearing fruit. Early:from early August, intermediate:from mid August, late:from late August

Plant		Fig		60(07018)	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Fruit cracking	20 branches for first-crop,10 for second	Measurement	1:None 3:Little 5:Intermediate 7:Much 9:Very much		Cracked fruit/matured fruit x 100. None:0%, little:<=10%, intermediate:11-30%, much:31-50%, very much:>=51%
2	Storability of second-crop fruit	10 fruits	Observation	3:Short 5:Intermediate 7:Long		When matured fruit is kept at room temperature, the time at which the fruit deteriorates is observed in the majority of the harvested fruit. Short:<=12 hr, intermediate:13-24 hr, long:>=25 hr