

Plant		Cherry		486	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Color of dormant one-year-old shoot	10 shoots	Observation	1:Greenish brown 2:Reddish brown 3:Dark reddish brown		Observe the over color the central portion of moderate 1-year-old dormant shoots
2	Leaf size	15 leaves	Measurement	square cm (integer)		Measure lengths (L) and widths (W) of leaf blade of 15 leaves collected from 4th to 6th node of moderate growing shoots in August and calculate leaf area by $\pi \times L \times W / 4.0$
3	Leaf shape	15 leaves	Measurement	* (integer)		Calculate of length/width ratio of leaf blade by $L/W \times 100$
4	Leaf glossiness	15 leaves	Observation	0:Dull 9:Glossy		Observe the upper side of 15 leaves collected from 4th to 6th node of moderate growing shoots in August
5	Nectary shape	15 leaves	Observation	1:Round 2:Round-kidney shape 3:Kidney shape		Observe the nectory on 15 leaves collected from 4th to 6th node of normally growing shoots in August
6	Flower size	10 flowers	Measurement	mm (integer)		Measure the widest diameter of 10 flowers of full opening
7	Flower color	10 flowers	Observation	1:White 2:Milky white 3:Light pink		Observe the petal color of normal flowers
8	Fruit size	10 fruits	Measurement	g (round to the 1st decimal place)		Average weight of 10 normal ripe fruits
9	Fruit shape	10 fruits	Observation	1:Kidney shape 2:Flat-round 3:Round 4:Elongate 5:Cordate		Observe the shape of mature fruits
10	Over color of fruit skin	10 fruits	Observation	1:Yellow 2:Orange red 3:Red spotted yellow 4:Vermillion 5:Mahogany 6:Black		Observe the pigmentation on the fruit skin of mature fruits

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Number of nectaries	15 leaves	Measurement	nectaries (round to the 1st decimal place)		Observe the nectaries on 15 leaves collected from 4th to 6th nodes of 5 moderate growing shoots in August
2	Number of flowers per cluster	10 flower clusters	Measurement	flowers (round to the 1st decimal place)		Observe the normal flower clusters and count the number of flowers per cluster
3	Number of petals	10 flowers	Measurement	petals (round to the 1st decimal place)		Count the number of petals of normal flowers
4	Petal shape	10 flowers	Measurement	* (integer)		Evaluate length/width ratio of petals by $L/W \times 100$
5	Pedicel length	10 flowers	Measurement	mm (integer)		Measure the length of flower stalk of 10 normal flowers

Plant		Cherry		486	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Data of sprouting	2 trees	Measurement	date		Observe the date when more than 3 terminal buds have sprouted in a tree
2	Date of full bloom	2 trees	Measurement	date		Observe the date when 70-80% of flowers have opened
3	Date of maturity	2 trees	Measurement	date		Observe the date when the largest amount of fruits were harvested
4	Physiological drop of young fruit	2 trees	Observation	0:Absent 3:Few 5:Intermediate 7:Many		Observe the degree of immature fruit drop in June
5	Cracking of fruit	2 trees	Observation	0:Absent 3:Few 5:Intermediate 7:Many		Observe the degree of fruit cracking at maturity
6	Adherence of stone	10 fruits	Observation	1:Free 3:Semi-free 5:Semi-cling 7:Cling		Observe the degree of adherence of flesh and stones
7	Cold injury	2 trees	Observation	0:Absent 3:Little 5:Intermediate 7:Much		Observe the degree of injury on shoots and buds
8	Resistance to brown rot	2 trees	Observation	1:Resistant 3:Moderately resistant 5:Moderately susceptible 7:Highly susceptible		Judge by the degree of infection of brown rot caused by <i>Monilinia fructicola</i>

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Tree habit	2 trees	Observation	1:Fastigate 3:Upright 5:Intermediate 7:Spreading 9:Weeping		Judge by the general shape and growth characteristics of trees
2	Tree vigor	2 trees	Observation	3:Weak 5:Intermediate 7:Strong		Judge by the tree size and growth characteristics of current shoots
3	Bouquet spur formation	2 trees	Observation	3:Few 5:Intermediate 7:Many		Observe the bouquet spur formation on the old shoots over 2-years-old
4	Color of flesh	10 fruits	Observation	1:Greenish white 2:White 3:Cream-white 4:Cream 5:Light red 6:Red		Observe the flesh color of mature fruits immediately after cut
5	Stone size	10 fruits	Measurement	cubic cm (round to the 1st decimal place)		Calculate the volume by length, width and thickness of 10 stones

Plant		Cherry		486	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Firmness of fruit	10 fruits	Sensory	3:Soft 5:Intermediate 7:Hard		Evaluate the degree of firmness of flesh by chewing mature fruits. Soft:Governor Wood, Intermediate:Sato nishiki, Hard:Napoleon
2	Texture of flesh	10 fruits	Sensory	3:Coarse 5:Intermediate 7:Fine		Evaluate the texture of flesh by chewing mature fruits
3	Juiciness	10 fruits	Sensory	3:Low 5:Intermediate 7:High		Evaluate the fruit juiciness by chewing mature fruits. Low:Vic, Intermediate:Chapman, High:Sato nishiki
4	Soluble solids content	10 fruits	Measurement	% (round to the 1st decimal place)		Measure the filtrate of juice from 10 mature fruits by a refractmeter
5	Juice acidity	10 fruits	Measurement	pH (round to the 1st decimal place)		Measure the acidity of juice from 10 mature fruits by a pH meter
6	Aroma	10 fruits	Sensory	0:Absent 1:Vely little 9:Present		Evaluate the amount of aroma by chewing mature fruits
7	Storability of fruit under room temperature	25 fruits	Measurement	days (integer)		Evaluate the maximum storage period under room temperature by the change of appearance and flavor of fruits
8	Yield	2 trees	Measurement	kg/tree (round to the 1st decimal place)		Measure the yield per tree at high productive age