

Plant		Ginkgo		427(07024)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks	
1	Color of shoot	10 shoots	Observation	1:Yellowish brown 3:Greyish brown 5:Brown 7:Dark brown 8:Reddish Brown 9:Red	Color of current year's dormant shoot. Observe after leaf fall at the middle part of normally grown shoot	
2	Shape of leaf blade	15 leaves	Observation	1:Normal 3:Semi-funnel 5:Funnel 7:Variegated	Observe adult leaves at the middle part of normally grown spur shoot in August. Normal: 'Kinbei', 'Kyuuju', 'Tookurou' etc. Semi-funnel: leaf blade is incurved a little	
3	Size of leaf blade	15 leaves	Measurement	(round to the 1st decimal place)	Measure adult leaves at the middle part of normally grown current year's long shoot in August. Measure longitudinal length (L) and lateral length (D) of leaf blade and calculate leaf area with approximate value by $LD/3$. Measure leaves at 7th to 8th node from the basal part of current year's long shoot. Select leaves having petiole which is connected perpendicular to the bottom of leaf margin	
4	Size of ovule	10 ovules	Measurement	mm (integer)	Measure length of ovule including integument apex at flowering time	
5	Color of ovule	10 ovules	Observation	1:Milky white 2:Milky greenish white 3:Yellowish green 5:Light yellow	Color of ovule at flowering time	
6	Shape of seed	10 seeds	Observation	1:Spherical 3:Ovoid 4:Obovoid 6:Ellipsoid	Observe before the softening of pulp with the peduncle side up	
7	Color of seed surface	10 seeds	Observation	1:Light yellow 3:Yellow 5:Orangish yellow 7:Orange	Observe at the equatorial part of surface of mature seed	
8	Shape of nut	10 nuts	Observation	0:Spherical 2:Ovoid 3:Long ovoid 5:Obovoid 6:Long obovoid 7:Ellipsoid 8:Long ellipsoid	Observe only healthy seeds after selection. The shape with the edge of the nut right in front and the distal end up	

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9	Color of nut	10 nuts	Observation	0:Light milky white 1:Milky white 2:Greyish white 3:Yellowish white	Observe only healthy seeds after selection	
10	Size of ovule collar	10 ovules	Observation	3:Large 5:Intermediate 7:Small	Determine based on vertical size or vertical size x lateral size	
11	Color of ovule collar	10 ovules	Observation	2:Light yellow 3:Yellow 5:Orangish yellow 7:Orange 9:Special color	In case of special color, describe concrete color	

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Size of seed	15 seeds	Measurement	1:Very large 3:Large 5:Middle 7:Small		Very large: more than 20 g Large: 15-20 g Middle: 10-15 g Small: less than 10 g
2	Size of nut	10 nuts	Measurement	1:Very large 3:Large 4:Middle to large 5:Middle 7:Small 9:Very small		Determine based on vertical size or vertical size x lateral size
3	Uniformity of nut	30 nuts	Observation	3:Low 5:Moderate 7:High		Determine on the observation of uniformity after selection of nuts
4	Weight of nut	10 nuts	Measurement	g (round to the 1st decimal place)		
5	Length of peduncle	15 seeds	Measurement	1:Long 3:Middle 5:Short		Long: 'Eishin', middle: 'Tookurou'
6	Amount of bloom	10 seeds	Observation	1:Few 3:Intermediate 5:Many		Amount of bloom on the surface of seed
7	Time of hardening of shell	10 seeds	Measurement	date		Observe the date when shell becomes too hard to cut with fruit knife. Cut transversely on the equatorial part of seed

Plant		Ginkgo		427(07024)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Time of sprouting	2 trees	Measurement	date		Observe the date when green tip appeared in more than three buds per tree
2	Flowering time of female flower(ovule)	2 trees	Measurement	date		Observe the date when female peduncles grow to about 20 - 25 mm on three short shoots and ovules grow to 2 - 2.5mm in transverse diameter and all ovules become mature(pollen chamber liquid is present)
3	Time of Maturing	2 trees	Measurement	date		Observe the date when seeds become colored and pulp become elastic
4	Physiological fruit (seed) drop	2 trees	Observation	0:Absent 3:Few 5:Intermediate 7:Many		Observe the amount of immature fruit drop
5	Strength of shell	10 nuts	Observation	3:Week 5:Intermediate 7:Strong		Observe the difficulty of cracking of shells
6	Ratio of upper and inner part of the inner seed coat	10 nuts	Measurement	1:1 2:2 3:3		Ratio of upper and inner part of the inner seed coat which remains on the surface of kernel.(Length of upper part / total length of kernel) x 100. 1: Less than 40 2: 40 to 50 3: More then 50
7	Thickness of shell	10 nuts	Measurement	mm (round to the 1st decimal place)		Measure two points per one shell
8	Weight of kernel	10 nuts	Measurement	g (round to the 1st decimal place)		
9	Color of kernel	10 nuts	Observation	1:Milky white 2:Milky greenish white 3:Yellowish white 4:Light yellow		Observe the internal color of kernels with cracking them
10	Pit on the surface of nut	10 nuts	Observation	0:Absent 1:Very few 2:Few 4:Intermediate 6:Many		Determine by the observation by eye. 'Kinbei' is a standard cultivar of "Many"

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1	Form of tree	2 trees	Observation	2:Erect 4:Intermediate 6:Spreading 8:Weeping		Observe in winter. Judge by the ratio of crown width / tree height, habitat of branch elongation, etc.
2	Vigor of tree	2 trees	Observation	2:Weak 4:Intermediate 6:Strong 8:Very strong		Judge by only clearly hereditary characters, ignoring environmental variation. Observe the elongation and thickness of current year's shoot, etc.
3	Number of ovules	10 shoots	Measurement	(round to the 1st decimal place)		Observe the number of ovules in one spur shoots at flowering time
4	Number of seeds in one spur shoot	10 shoots	Measurement	(round to the 1st decimal place)		Average number of seed in one spur shoots before maturity
5	Size of kernel	10 kernels	Measurement	(round to the 1st decimal place)		Measure at the longest position
6	Angle of branch to trunk	2 trees	Observation	1:Acute 3:Intermediate 5:Obtuse		Angle of primary branch to trunk
7	Density of branch	2 trees	Observation	1:Sparse 3:Intermediate 5:Dense		Dense: 'Nitowase'
8	Number of male strobilus	10 shoots	Measurement	(round to the 1st decimal place)		Observe the number of strobilus in one spur shoots at flowering time
9	Flowering time of male strobilus	1 tree	Measurement	date		Observe the date when microsporangia (anther) dehisce (release of microspore (pollen)) in more than three strobili per tree

Plant		Ginkgo		427(07024)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Proportion of nut	10 seeds	Measurement	(round to the 1st decimal place)		Nut weight / seed weight x 100
2	Proportion of kernel	10 nuts	Measurement	(round to the 1st decimal place)		Kernel weight / nut weight x 100
3	Sweetness of kernel	10 kernels	Sensory	0:Absent 3:Low 5:Intermediate 7:High		Evaluate the degree of sweetness by eating cooked kernels. Cooking in a microwave oven (rated microwave output is about 600 W) for about 90 seconds
4	Bitterness of kernel	10 kernels	Sensory	0:Absent 3:Low 5:Intermediate 7:High		Evaluate the degree of bitterness by cooked kernels. Cooking in a microwave oven (rated microwave output is about 600 W) for about 90 seconds
5	Yield	2 trees	Measurement	kg / tree (round to the 1st decimal place)		Nut weight per tree
6	Alternate bearing	2 trees	Measurement	0:None 3:Light 5:Intermediate 7:Severe		Determine by the yields of several years
7	Index of nut shape	10 nuts	Measurement	(round to the 2nd decimal place)		Measure lateral and transverse length. The latter is the length from the edge to edge. Transverse length / lateral length

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1	Juice brix	10 kernels	Measurement	% (round to the 1st decimal place)	Measure at the equatorial part of kernel.
2	Color of cooked kernel	10 kernels	Observation	1:Light green 3:Yellowish green 5:Yellow	Cooking in a microwave oven (rated microwave output is about 600 W) for about 90 seconds
3	Aroma of kernel	10 kernels	Sensory	0:Absent 3:Low 5:Intermediate 7:High	Evaluate the degree of fragrance by eating cooked kernels
4	Thickness of leaf blade	15 leaves	Measurement	mm (round to the 2nd decimal place)	Measure at the center of the edge part of a mature leaf which is attached on the middle part of a normally grown short spur shoot in August
5	Time of leaf fall	2 trees	Observation	date	The date when more than 70 to 80 % of leaves are fallen
6	Age of initiation into fruit (seed) bearing	2 trees	Observation	age (round to the 1st decimal place)	Age of initiation into fruit bearing at orchard
7	Index of seed shape	10 seeds	Measurement	(round to the 2nd decimal place)	Measure both maximum lateral and transverse length. Transverse length / lateral length