

Plant		Rhododendron		93(09006)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Number of flowers per flower cluster	5 flower clusters	Measurement	(round to the 1st decimal place)		Measure at flowering stage
2	Leaf length of spring leaf	5 leaves	Measurement	mm (integer)		Measure in summer
3	Hairiness of spring leaf	5 leaves	Observation	1:Very sparse 3:Spacce 5:Intermediate 7:Dense 9:Very dense		Amount of pubescence and glandular hair of dorsal surface
4	Glossiness of spring leaves	5 leaves	Observation	0:Absent 1:Very weak 3:Weak 5:Intermediate 7:Strong		Glossiness of abaxial surface of spring leaves in summer
5	Time of flowering	Block	Observation	2:Very early 3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late 8:Very late		Time when 80% of all plants have flowered
6	Corolla tube length	5 flowers	Measurement	mm (integer)		Measure at flowering stage
7	Corolla lobe width	5 flowers	Measurement	mm (integer)		Measure at flowering stage
8	Color of flower	5 flowers	Measurement			Refer to the RHS color chart at flowering stage
9	Amount of blotches	5 flowers	Observation	0:Absent 1:Very low 3:Low 5:Intermediate 7:High		Observe at flowering stage
10	Color of blotches	5 flowers	Measurement			Refer to the RHS color chart at flowering stage
11	Hairiness of ovary	5 flowers	Observation	0:Absent 1:Very sparse 3:Spacce 5:Intermediate 7:Dense		Observed at flowering stage
12	Type of flower	5 flowers	Observation	1:Single 3:Semi-double 5:Single, hose in hose 7:Semi-double, hose in hose 9:Double		Observed at flowering stage

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1	Tree form	5 plants	Observation	3:Spreading 5:Intermediate 7:Erect		Time of growth cessation in autumn
2	Tree height	5 plants	Observation	3:Dwarf 5:Intermediate 7:High		Plant age is at least 5 years.
3	Circumference of biennial branch	5 branches	Observation	3:Small 5:Intermediate 7:Large		Time of cessation of outward growth in autumn
4	Color of young shoot	5 shoots	Observation	1:White 3:Green 5:Red 7:Reddish brown 9:Brown		Time of bud break in spring
5	Density of primary scaffold branches	5 plants	Observation	3:Sparse 5:Intermediate 7:Dense		Time of growth cessation in autumn
6	Density of twigs	5 plants	Observation	3:Sparse 5:Intermediate 7:Dense		Time of growth cessation in autumn
7	Pubescence of young shoot	5 shoots	Observation	3:Sparse 5:Intermediate 7:Dense		Observe in spring
8	Serration of spring leaves	5 leaves	Observation	3:Little 5:Intermediate 7:Much		Observe in spring
9	Curvature of leaf	5 leaves	Observation	3:Incurving 5:Straight 7:Reflexing		Observe in summer
10	Undulation of margin	5 leaves	Observation	3:Slightly undulate 5:Intermediate 7:Remarkably undulate		Observe in summer
11	Shape of midrib cross-section	5 leaves	Observation	3:Concave 5:Flat 7:Convex		Observe in summer
12	Twisting of leaf	5 leaves	Observation	3:Weak 5:Intermediate 7:Strong		Observe in summer
13	Shape of leaf apex	5 leaves	Observation	3:Obtuse 5:Intermediate 7:Apiculate		Observe in summer
14	Color of spring leaves	5 leaves	Measurement			Refer to the RHS color chart. Measure in summer
15	Color of autumn leaves	5 leaves	Measurement			Refer to the RHS color chart. Measure in winter

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16	Thickness of spring leaves	5 leaves	Measurement	mm (round to the 1st decimal place)		Measure in summer
17	Pubescence type of abaxial surface of spring leaf	5 leaves	Observation	3:Flat 5:Simple 7:Wavy		Observe in summer
18	Glandular hair of dorsal surface of spring leaf	5 leaves	Observation	0:Absent 9:Present		Observe in summer
19	Amount of pubescence of dorsal surface of spring leaf	5 leaves	Observation	3:Sparse 5:Intermediate 7:Dense		Observe in summer
20	Pubescence type of dorsal surface of spring leaf	5 leaves	Observation	3:Flat 5:Simple 7:Wavy		Observe in summer
21	Thickness of summer leaf	5 leaves	Measurement	mm (round to the 1st decimal place)		Measure in winter
22	Pubescence type of abaxial surface of summer leaf	5 leaves	Observation	3:Flat 5:Simple 7:Wavy		Observe in winter
23	Pubescence type of dorsal surface of summer leaf	5 leaves	Observation	3:Flat 5:Simple 7:Wavy		Observe in winter
24	Amount of pubescence of dorsal surface of summer leaf	5 leaves	Observation	3:Sparse 5:Intermediate 7:Dense		Observe in winter

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25	Pubescence color of abaxial surface of spring leaf	5 leaves	Observation	3:White 5:Brown 7:Black		Observe in summer
26	Pubescence color of dorsal surface of spring leaf	5 leaves	Observation	3:White 5:Brown 7:Black		Observe in summer
27	Pubescence color of abaxial surface of summer leaf	5 leaves	Observation	3:White 5:Brown 7:Black		Observe in winter
28	Glandular hair of dorsal surface of summer leaf	5 leaves	Observation	0:Absent 9:Present		Observe in winter
29	Pubescence color of dorsal surface of summer leaf	5 leaves	Observation	3:White 5:Brown 7:Black		Observe in winter
30	Waxiness of abaxial surface of summer leaf	5 leaves	Observation	0:Absent 9:Present		Observe in winter
31	Waxiness of dorsal surface of summer leaf	5 leaves	Observation	0:Absent 9:Present		Observe in winter
32	Waxiness of petiole of summer leaf	5 leaves	Observation	0:Absent 9:Present		Observe in winter
33	Attitude of spring leaf	5 leaves	Observation	3:Semi-upwards 5:Horizontal 7:Drooping		Observe in summer
34	Attitude of summer leaf	5 leaves	Observation	3:Semi-upwards 5:Horizontal 7:Drooping		Observe in winter
35	Type of flower cluster	5 flower clusters	Observation	2:Terminal 5:Terminal and lateral 8:Lateral		Observe in autumn

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36	Attitude of flower	5 flowers	Observation	3:Erect 5:Horizontal 7:Drooping		Observe from horizontal level at flowering stage
37	Shape of flower bud	5 buds	Observation	3:Acute 5:Elliptic 7:Round		Observe just before flowering in spring
38	Incision of corolla lobe	5 flowers	Observation	3:Weak 5:Intermediate 7:Strong		Rate of incision for corolla tube
39	Symmetry of corolla	5 flowers	Observation	1:Asymmetric 8:Symmetric		Observe at flowering stage
40	Shape of upper half of corolla	5 flowers	Observation	1:Linear 2:Lanceolate 3:Ovate 4:Oblanceolate 5:Obovate 6:Semi-elliptic 7:Semi-orbicular		Observe at flowering stage
41	Shape of lower half of corolla	5 flowers	Observation	1:Linear 2:Lanceolate 3:Ovate 4:Oblanceolate 5:Obovate 6:Semi-elliptic 7:Semi-orbicular		Observe at flowering stage
42	Shape of apex of corolla lobe	5 flowers	Observation	3:Concave 5:Flat 7:Convex		Observe at flowering stage
43	Overlapping of corolla lobe	5 flowers	Observation	1:Not overlapping 3:Touching 5:Intermediate 7:Overlapping		Observe from side of corolla tube at flowering stage
44	Incision of corolla lobe margin	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
45	Undulation of corolla lobe	5 flowers	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		Observe at flowering stage
46	Pubescence of dorsal surface of corolla lobe	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
47	Pubescence of abaxial surface of corolla lobe	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
48	Scaly hair of corolla lobe	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage

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49	Diameter of flower	5 flowers	Measurement	3:Small 5:Intermediate 7:Large		Observed at the flowering stage
50	Corolla width	5 flowers	Measurement	3:Narrow 5:Intermediate 7:Wide		Width of corolla from side to side at flowering stage
51	Corolla length	5 flowers	Measurement	3:Short 5:Intermediate 7:Long		Length of corolla from the base to top at flowering stage
52	Type of flower color	5 plants	Observation	1:Single-colored 2:Bicolored		Observe at flowering stage
53	Variegation of flower color	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		Observe at flowering stage
54	Margin of contrasting flower color	5 plants	Observation	0:Absent 3:White throat 5:White jewel spot 7:White fingernail		Observe at flowering stage
55	White jewel-border of flower color	5 plants	Observation	0:Absent 9:Present		Observe at flowering stage
56	Crimson fingernail of flower color	5 plants	Observation	0:Absent 9:Present		Observe at flowering stage
57	Pattern of light and shade of flower color	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
58	Change of flower color	5 flowers	Observation	0:Absent 9:Present		Change in flower color from beginning of flowering to full bloom
59	Hue of flower core	5 flowers	Observation	3:Bright 5:Same 7:Dull		Observe at flowering stage
60	Variation of lobe number	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
61	Number of corolla lobes	5 flowers	Measurement	0:None 3:5 5:6 7:7		Measure at flowering stage
62	Petal shape of stamen	5 flowers	Observation	0:Absent 3:Partly 5:Incomplete 7:Complete		Observe at flowering stage

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
63	Curvature of stamen	5 flowers	Observation	0:Absent 3:Slight 5:Intermediate 7:Strong		Observe at flowering stage
64	Glandular hair of stamen	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
65	Pubescence length of stamen	5 flowers	Observation	3:Short 5:Intermediate 7:Long		Observe at flowering stage
66	Number of stamens	5 flowers	Measurement	(integer)		Measure at flowering stage
67	Length of stamen	5 flowers	Observation	3:Shorter 5:Same 7:Longer		Compare stamen with corolla at flowering stage
68	Color of filament	5 flowers	Observation	0:White 2:Yellow 4:Red 6:Reddish purple 8:Purple		Observe at flowering stage
69	Color of anther	5 flowers	Observation	0:White 2:Yellow 4:Brown 6:Purple 8:Red		Observe at flowering stage
70	Petal development of pistil	5 flowers	Observation	3:Absent 7:Developed		Observe at flowering stage
71	Glandular hair of ovary	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
72	Length of pistil	5 flowers	Observation	3:Shorter 5:Same 7:Longer		Compare at flowering stage
73	Color of style	5 flowers	Observation	0:White 2:Yellow 3:Light green 4:Light red 5:Red 6:Light purple 7:Purplish red 8:Purple		Observe at flowering stage
74	Color of stigma	5 flowers	Observation	0:White 2:Yellow 3:Light green 4:Light red 5:Red 7:Purplish red 8:Purple		Observe at flowering stage
75	Glandular hair of style	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
76	Color of flower bud scale	5 flowers	Observation	1:Green 5:Red 8:Brown		Observe at flowering stage
77	Overlapping of flower bud scale	5 flowers	Observation	0:No overlapping 9:Overlapping		Observe before flowering

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
78	Presence of hose in hose	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
79	Degree of hose in hose	5 flowers	Observation	3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large		Observe at flowering stage
80	Coalescence of calyx with base of corolla	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
81	Number of calyxes	5 flowers	Measurement	3:5 5:6 7:7		Observe at flowering stage
82	Differences in calyx size	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
83	Shape of calyx	5 flowers	Observation	1:Prominent 3:Orbicular 5:Lanceolate 7:Serrate		Observe at flowering stage
84	Calyx length	5 flowers	Measurement	mm (round to the 1st decimal place)		Observe at flowering stage
85	Calyx width	5 flowers	Measurement	mm (round to the 1st decimal place)		Observe at flowering stage
86	Coloration of calyx margin	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
87	Pubescence of calyx	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
88	Glandular hair of calyx	5 flowers	Observation	0:Absent 9:Present		Observe at flowering stage
89	Pedicel length	5 flowers	Observation	3:Short 5:Intermediate 7:Long		Observe at flowering stage
90	Pedicel width	5 flowers	Observation	3:Narrow 5:Intermediate 7:Broad		Observe at flowering stage



Plant		Rhododendron		93(09006)	Secondary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Time of leaf fall	5 branches	Measurement		Time of month when leaves developed in spring fall. First ten days=E, middle ten days=M, the last ten days=L
2	Length of flowering time	5 plants	Measurement	days (integer)	Length of time from 10% to 90% of plants have flowered
3	Cold hardiness	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of browning and dying of florets in winter
4	Resistance to Earias roseifora	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of damage to flower buds in autumn
5	Resistance to Anthracnose	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of occurrence in spring and summer
6	Resistance to botrytis petal blight	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of occurrence at flowering stage
7	Resistance to disease common to propagation	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of occurrence from spring to autumn

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Time of germination	5 plants	Measurement		Time of month when bud break begins. E=first ten days, M=middle ten days, L=the last ten days
2	Ever-flowering ability	5 plants	Observation	0:None 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong 8:Very strong	Observe flowering shoot in all seasons
3	Heat tolerance	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of growth damage under high temperature in summer
4	Drought tolerance	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of growth damage under drought condition in all season
5	Resistance to lace bug	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of damage at the time of occurrence
6	Resistance to white fly	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of damage at the time of occurrence
7	Resistance to phomopsis die-back	5 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Degree of damage at the time of occurrence
8	Forcing ability	5 plants	Measurement	days (integer)	Length between the day when plants are put in heat room kept at the minimum night temperature of 10 centi degrees, and the day of flowering.
9	Cutting ability	5 plants	Measurement	Number (integer)	Number of cuttings per biennial branch in all seasons
10	Rooting ability	10 cuttings	Measurement	Number (integer)	Plant shoots after flowering for cutting, then two months later count rootings whose length is at least 1 mm

Plant	Rhododendron	93(09006)	Tertiary essential character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Regenerative shoot length	5 shoots	Measurement	cm (integer)	After pruning