

Plant		Edible burdock		105(08024)	Primary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Plant posture	20 plants	Observation	3:Erect 4:Semi-erect 5:Intermediate 6:Semi-spread 7:Spread	Investigate at the middle to the full growth stage
2	Number of leaves	10 plants	Measurement	(integer)	Count at the full growth stage
3	Leaf length	10 plants	Measurement	cm (integer)	Investigate the largest leaf at the full growth stage
4	Leaf width	10 plants	Measurement	cm (integer)	Investigate the largest leaf at the full growth stage
5	Root length	10 plants	Measurement	cm (integer)	Investigate typical plants of the harvested roots
6	Width of root neck	10 plants	Measurement	cm (round to the 1st decimal place)	Investigate typical plants of the harvested roots
7	Root width	10 plants	Measurement	cm (round to the 1st decimal place)	Investigate at the biggest part of the harvested roots
8	Root color	10 plants	Observation	3:Light brown 5:Brown	
9	Root uniformity	30 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	

Plant		Edible burdock		105(08024)	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Seed shape	30 seeds	Observation	1:Flat 2:Round		
2	Seed length	20 seeds	Measurement	mm (round to the 1st decimal place)		
3	Plant vigour	20 plants	Observation	1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong 8:Very strong 9:Extremely strong		Judge on upper ground part
4	Leaf shape	20 plants	Observation	1:Round 2:Thistle shape		
5	Leaf color	20 plants	Observation	1:Extremely light green 2:Very light green 3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green 8:Very dark green 9:Extremely dark green		Investigate near the largest leaf at the full growth stage
6	Petiole length	10 plants	Measurement	cm (integer)		
7	Petiole width	10 plants	Measurement	mm (integer)		
8	Shape of petiole cross section	10 plants	Observation	1:Round 2:Angled 3:Multi angled		Investigate 10 cm upper part from the base of petiole
9	Petiole color	10 plants	Observation	1:Extremely light green 2:Very light green 3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green 8:Very dark green 9:Extremely dark green		Investigate near the largest leaves at the full growth stage
10	Pigmentation of petiole	10 plants	Observation	0:None 1:Extremely pale 2:Very pale 3:Pale 4:Slightly pale 5:Intermediate 6:Slightly dark 7:Dark 8:Very dark 9:Extremely dark		Investigate anthocyanin pigmentation near the largest leaf at the full growth stage
11	Petiole pubescence	10 plants	Observation	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much 8:Very much 9:Extremely much		Standard variety, intermediate, Yanagawarisou
12	Size of petiole base	10 plants	Observation	1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		Standard variety, intermediate, Yanagawarisou

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13	Shape of root bottom	10 plants	Observation	1:Extremely thin 2:Very thin 3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick 8:Very thick 9:Extremely thick	Standard variety,intermediate,Yanagawarisou
14	Root surface	10 plants	Observation	1:Extremely smooth 2:Very smooth 3:Smooth 4:Slightly smooth 5:Intermediate 6:Slightly rough 7:Rough 8:Very rough 9:Extremely rough	Standard variety,intermediate,Yanagawarisou
15	Size of lateral root	20 plants	Observation	1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large	

Plant		Edible burdock		105(08024)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Pithiness	30 plants	Observation	1:Extremely early 2:Very early 3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late 8:Very late 9:Extremely late		
2	Maturity	30 plants	Measurement	Day (integer)		Days from sowing to harvest in spring sowing
3	Bolting resistance	30 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Earliness of bolting
4	Autumn sowing ability	10 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Judge from the degree of growth in autumn sowing

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Root cracking	30 plants	Observation	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much 8:Very much 9:Extremely much		
2	Hollow of root	10 plants	Observation	0:None 9:Present		
3	Cold tolerance of leaves	30 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Judge the cold injury in overwinter cultivation
4	Time of germination	30 plants	Observation	1:Extremely early 2:Very early 3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late 8:Very late 9:Extremely late		

Plant	Edible burdock		105(08024)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Firmness of root	10 plants	Sensory	1:Extremely soft 2:Very soft 3:Soft 4:Slightly soft 5:Intermediate 6:Slightly hard 7:Hard 8:Very hard 9:Extremely hard	Compare to the standard variety 'Yanagawa Riso'

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Storability	30 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	Compare to the standard variety 'Yanagawa Riso'