Plant	Cauliflower	107(08012)	Primary essential character

No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Angle of leaf petiole	10 plants	Observation	3:Erect 4:Slightly erect 5:Intermediate 6:Slightly horizontal 7:Horizontal	Measure at head emergence stage
2	Plant height	10 plants	Measurement	cm (integer)	Measure at head emergence stage
3	Stem length	10 plants	Measurement	cm (integer)	Measure from the base of stem to the bottom of curd at head emergence stage
4	Leaf length	10 plants	Measurement	cm (integer)	Measure the largest leaf at head emergence stage
5	Leaf color	10 plants	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green	Observe the largest leaf at head emergence stage
6	Curd shape	10 plants	Observation	1:Very flat 2:Flat elliptic 3:Flat elliptic pointed 4:Flat 5:Round 6:Pointed 7:Reverse conic 8:Reverse conic round top 9:Reverse conic pointed top	
7	Coverage by bract leaf in curd	10 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	
8	Basic color of curd	10 heads	Observation	1:White 2:Green 3:Purple	
9	Curd whiteness	10 heads	Observation	2:White 3:White-Milky white 4:Milky white 5:Milky white-pale yellow 6:Pale yellow 7:Pale yellow-light yellow 8:Light yellow	Evaluate under shaded condition
10	Curd purpleness	10 heads	Observation	3:Light purple 4:Slightly light purple 5:Purple 6:Slightly dark purple 7:Dark purple	Degree of anthocyanin pigmentation
11	Curd maturity	10 plants	Observation	2:Extremely early 3:Very early 4:Early 5:Slightly early 6:Intermediate 7:Late 8:Very late	For the summer-sowing cultivation in the flat areas of the Pacific coasts of Honshu, Japan

Plant	Cauliflower	107(08012)	Primary optional character

No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Leaf width	10 plants	Measurement	cm (integer)	Measure the largest leaf at head emergence stage
2	Leaf undulation	10 plants	Observation	0:Absent 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong	Observe the largest leaf at head emergence stage
3	Stem width	10 plants	Measurement	cm (round to the 1st decimal place)	Measure the thickest part of stem at head emergence stage
4	Number of lateral shoots	10 plants	Measurement	Number (integer)	Measure sproutings from the base of stem at harvesting time
5	Leaf number	10 plants	Measurement	Number (integer)	Measure at harvesting stage
6	Leaf shape	10 plants	Observation	1:Liniar 2:Lanceolate 3:Reverse lanceolate 4:Long ovate 5:Reverse long ovate 6:Ovate 7:Reverse ovate 8:Elliptic	Observe entire mature leaf at harvesting stage
7	Leaf tip shape	10 plants	Observation	3:Pointed 4:Slightly pointed 5:Intermediate 6:Slightly rounded 7:Round	Observe the largest leaf at head emergence stage
8	Leaf shape of leaf base	10 plants	Observation	2:Petiole without lobes 3:2-4 4:Petiole with lobes 5:4-6 6:Leaf blade with incisions 7:6-8 8:Leaf blade without incisions	Observe the largest leaf at head emergence stage
9	Leaf cupping	10 plants	Observation	3:Reverse cupped (Center sinking 4:Slightly reverse cupped 5:Flat 6:Slightly cupped 7:Cupped (Center raising)	Observe the center of the largest leaf at head emergence stage
10	Leaf bending	10 plants	Observation	3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much	Observe the largest leaf at head emergence stage
11	Leaf incision	10 plants	Observation	0:None 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong	Observe the largest leaf at head emergence stage
12	Leaf pigmentation	10 plants	Observation	0:None 1:Extremely little 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much	Degree of anthocyanin pigmentation at heading stage

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
13	Leaf wax	10 plants	Observation	0:None 3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much	Of the upper surface of leaf at head emergence stage
14	Smoothness of surface in curd	10 plants	Observation	3:Smooth 4:Slightly smooth 5:Intermediate 6:Slightly rough 7:Rough	At harvesting stage
15	Curd width	10 heads	Measurement	cm (round to the 1st decimal place)	Of the primary curd of main stem
16	Curd height	10 heads	Measurement	cm (round to the 1st decimal place)	Of the primary curd of main stem
17	Bract leaf shape	10 heads	Observation	1:Straight 2:Curling 3:Wrapping	
18	Thickness of bud layer in curd	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick	At the thickest site
19	Curd solidity	10 heads	Observation	3:Loose 4:Slightly loose 5:Intermediate 6:Slightly solid 7:Solid	
20	Curd vortex	10 heads	Observation	3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much	
21	Color of branch (surface) in curd	10 heads	Observation	1:Partly purple 2:Partly purple-White 3:White 4:White-Pale green 5:Pale green 6:Pale green-Green 7:Green	
22	Color of branch (section) in curd	10 heads	Observation	2:Extremely pale green 3:Very pale green 4:Pale green 5:Slightly pale green 6:Light green 7:Slightly green 8:Green	

Plant	Cauliflower	107(08012)	Secondary essential character

No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Ricy	20 plants	Observation	3:Infrequent 4:Slightly infrequent 5:Intermediate 6:Slightly frequent 7:Frequent	
2	Leafy	20 plants	Observation	3:Infrequent 4:Slightly infrequent 5:Intermediate 6:Slightly frequent 7:Frequent	
3	Vernalizing temperature	20 plants	Observation	2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high	Very low:5 centi degree, slightly low:13 centi degrees, slightly high:17 centi degrees, very high:22 centi degrees (daily lowest temperature)
4	Fusarium yellow resistance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence or artificial inoculation
5	Black rot resistance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence or artificial inoculation
6	Clubroot resistance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence or artificial inoculation

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Buttoning	20 plants	Observation	3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many	
2	Cold tolerance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by the degree of cold injury of leaves in winter
3	Curd growth under low temperature	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by curd growth in autumn to winter
4	Heat tolerance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by the degree of plant and curd growth in hot season
5	Water excess tolerance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by the degree of growth disturbance due to the excess of soil water
6	Drought tolerance	20 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by the degree of growth disturbance due to the shortage of soil water
7	Winter habit	20 plants	Observation	0:Low 9:High	Adaptability to cropping of sowing October - November at flat areas of the Pacific coasts of Honshu, Japan
8	Spring habit	20 plants	Observation	0:Low 9:High	Adaptability to cropping of sowing January - March at flat areas of the Pacific coasts of Honshu, Japan
9	Boron deficiency	30 plants	Observation	3:Liable 4:Slightly liable 5:Intermediate 6:Intermediate-Not liable 7:Not liable	Evaluated by natural occurrence
10	Calcium deficiency	30 plants	Observation	3:Liable 4:Slightly liable 5:Intermediate 6:Intermediate-Not liable 7:Not liable	Evaluated by natural occurrence
11	Molybdenum deficiency	30 plants	Observation	3:Liable 4:Slightly liable 5:Intermediate 6:Intermediate-Not liable 7:Not liable	Evaluated by natural occurrence
12	Downey mildew resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
13	Yellows resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence
14	Resistance to Diamondback mos	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence

Plant	Cauliflower	107(08012)	Tertiary essential character

No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Curd weight	10 heads	Measurement	g (integer)	Weight of marketable primary curd per plant

Plant	Cauliflower	107(08012)	Tertiary optional character

No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Curd quality	10 heads	Observation	3:Poor 4:Slightly poor 5:Intermediate 6:Slightly fine 7:Fine	Evaluated by color, shape, thickness, solidity etc.