

Plant		Chinese cabbage		71(08008)	Primary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Tiller angle	10 plants	Observation	3:Erect 4:Semi-erect 5:Intermediate 6:Semi-prostrate 7:Prostrate	When rosette growth is the most vigorous
2	Outer leaf shape	10 plants	Observation	3:Round 4:Slightly round 5:Intermediate 6:Slightly long 7:Long	Of the largest leaf at harvesting stage
3	Outer leaf color	10 plants	Observation	1:Extremely pale green 2:Very pale green 3:Pale green 4:Slightly pale green 5:Green 6:Slightly dark green 7:Dark green 8:Very dark green 9:Extremely dark green	Of outer leaves surrounding head at harvesting stage
4	Head shape	10 plants	Observation	0:Non heading 1:Pointed/round 2:Pointed/flat 3:Round/round 4:Round/flat 5:Flat/round 6:Flat/flat 7:Swelling/round 8:Swelling/flat 9:Swelling/quite flat	Observe heads of medium growth
5	Head height	5 heads	Measurement	1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long 8:Very long 9:Extremely long	Observed heads of medium growth. Extremely short:<15 cm, short:21-25 cm, intermediate:31-35 cm, long:56-70 cm, extremely long:>90 cm
6	Head diameter	10 heads	Observation	3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large	Evaluated by as the proportion to head height
7	Depth of overlapping of head	10 heads	Observation	0:No overlapping 3:Shallow 4:Slightly shallow 5:Intermediate 6:Slightly deep 7:Deep 8:Very deep	Evaluated by the degree of overlapping of shell leaves at head top
8	Time to harvest	10 heads	Measurement	1:Extremely early 2:Very early 3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late 8:Very late 9:Extremely late	At 50% harvestable stage. Extremely early:<=50 days, early:56-60 days, intermediate:66-70 days, late:76-80 days, extremely late:>=91 days

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1	Outer leaf size	10 plants	Observation	3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large		Of the largest leaf at the harvesting stage
2	Outer leaf pigmentation	10 plants	Observation	0:Absent 9:Present		Anthocyanin, of outer leaves surrounding head
3	Outer leaf glossyness	10 plants	Observation	3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong		Of outer leaves surrounding head
4	Outer leaf hairs	10 plants	Observation	0:Absent 1:Almost none 2:Extremely few 3:Very few 4:Few 5:Intermediate 6:Many 7:Very many		The conspicuousness of pubescence of outer leaves surrounding head
5	Undulation of marginal area of outer leaf	10 plants	Observation	3:Very little 4:Little 5:Intermediate 6:Much 7:Very much		Of outer leaves surrounding head
6	Outer leaf incision	10 plants	Observation	0:Absent 1:Extremely shallow 2:Very shallow 3:Shallow 4:Slightly shallow 5:Intermediate 6:Slightly deep 7:Deep		Of outer leaves surrounding head
7	Outer leaf wrinkling	10 plants	Observation	3:Very little 4:Little 5:Intermediate 6:Much 7:Very much		Of outer leaves surrounding head
8	Distinctness of veins of outer leaf	10 plants	Observation	3:Indistinct 4:Slightly indistinct 5:Intermediate 6:Slightly distinct 7:Distinct		Of adaxial surface of outer leaves surrounding head
9	Outer leaf tip shape	10 plants	Observation	1:Pointed acute 2:Very pointed 3:Pointed 4:Slightly pointed 5:Intermediate 6:Intermediate-Round 7:Round 8:Round-Flat 9:Flat		Of outer leaves surrounding head
10	Midrib length of outer leaf	10 plants	Observation	3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Of outer leaves surrounding head
11	Midrib width of outer leaf	10 plants	Observation	3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide		Of outer leaves surrounding head
12	Heading habit	10 plants	Observation	3:Non heading 4:Mostly non heading 5:Half heading 6:Mostly heading 7:Heading		
13	Number of leaves in head	10 heads	Measurement	3:Very few 4:Few 5:Intermediate 6:Many 7:Very many		

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14	Head solidness	5 heads	Observation	1:Extremely loose 2:Very loose 3:Loose 4:Slightly loose 5:Intermediate 6:Slightly solid 7:Solid 8:Very solid 9:Extremely solid		By vertical section. Intermediate:some space, solid:little space, extremely solid:no space observed
15	Color of head top	5 heads	Observation	3:Yellowish green 4:Rather yellowish green 5:Pale green 6:Rather green 7:Green		
16	Inside color of head	5 heads	Observation	0:Absent 1:Extremely light 2:Very light 3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark		Degree of yellow-green pigmentation
17	Texture	5 heads	Sensory	3:Tender 4:Slightly tender 5:Intermediate 6:Slightly tough 7:Tough		Evaluate by eating fresh
18	Shape of core top	5 heads	Observation	1:Acutely pointed 2:Very pointed 3:Pointed 4:Slightly pointed 5:Intermediate 6:Slightly round 7:Round 8:Rather flat 9:Flat		By vertical section
19	Presence of flower buds	20 plants	Observation	0:Absent 9:Present		Relative earliness of flower bud initiation, examined with naked eye, by spring-sowing cropping
20	Development of root system	10 plants	Observation	3:Very little 4:Little 5:Intermediate 6:Much 7:Very much		
21	Time of bolting	20 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late		For spring-sowing cultivar

Plant		Chinese cabbage		71(08008)	Secondary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Adaptability to spring-sowing cropping	30 plants	Observation	0:Not adaptable 9:Adaptable	Adaptability to cropping type starting in cold season and running into season of higher temperature
2	Virus resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation
3	Soft rot resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation
4	Clubroot resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation
5	Verticillium yellows resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation

Plant		Chinese cabbage		71(08008)	Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Field durability	30 plants	Observation	3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Evaluate when splitting and deterioration rate reach 10%
2	Storability	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		
3	Calcium deficiency	30 plants	Observation	3:Liabile 4:Slightly liable 5:Intermediate 6:Intermediate-Not liable 7:Not liable		
4	Boron deficiency	30 plants	Observation	3:Liabile 4:Slightly liable 5:Intermediate 6:Intermediate-Not liable 7:Not liable		
5	Black speck	30 plants	Observation	3:Liabile 4:Slightly liable 5:Intermediate 6:Intermediate-Not liable 7:Not liable		
6	Downy mildew resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence or artificial inoculation
7	Leaf spot resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence or artificial inoculation
8	Heat tolerance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluated by growth by hot season cropping
9	Cold tolerance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluated by growth and cold injury by cold season cropping
10	Heating ability under low temperature	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluated by head development in cold season by autumn sowing cropping
11	Diamondback moth resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
12	Green caterpillar resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
13	Aphid resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence

Plant		Chinese cabbage		71(08008)	Tertiary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Head weight	5 heads	Measurement	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	Of heads harvested from plants of medium growth. Extremely low:<=1 kg, low:1.6-2.0 kg, intermediate:2.6-3.0 kg, high:7.1-9.0 kg, extremely high:>=9.1 kg
2	Brix	10 heads	Measurement	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Brix of juice squeezed from midrib of heading leaves. Low:<=0.9%, intermediate:1.7-2.3%, high:>=3.1%

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Processing suitability	10 heads	Sensory	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	
2	Taste	10 heads	Sensory	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	