

Plant		Chinese mustard		73(08010)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant habit	10 plants	Observation	3:Erect 4:Semi-erect 5:Intermediate 6:Semi-prostrate 7:Prostrate		
2	Leaf shape	10 plants	Observation	1:Lanceolate 2:Reverse lanceolate 3:Spatulate 4:Ovate 5:Reverse ovate 6:Long ellipsoid 7:Short ellipsoid 8:Circle 9:Broad circle		As outline of leaf excepting petiole (deselected part is regarded as petiole)
3	Leaf color	10 plants	Observation	1:Light yellow 2:Slightly light yellow 3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green 8:Very dark green 9:Dark green nearly black		
4	Leaf	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		By anthocyanin
5	Leaf incision	10 plants	Observation	1:Entire 2:Entire lobate 3:Lobate 4:Slightly cleft 5:Cleft 6:Slightly parted 7:Parted 8:Parted-disected 9:Disected		
6	Petiole/midrib width	10 plants	Observation	1:Extremely 2:Very narrow 3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide		At the widest portion
7	Leaf number	10 plants	Observation	3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		Except tiller types

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1	Leaf length	10 plants	Measurement	cm (integer)		Of the largest leaf
2	Number of lobes in leaf	10 plants	Observation	0:None 1:Almost none 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many 8:Very many 9:Extremely		
3	Width of lobe in leaf	10 plants	Observation	3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide		
4	Leaf dentation	10 plants	Observation	0:None 1:Almost none 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		
5	Leaf glossiness	10 plants	Observation	3:Weak 4:Slightly few 5:Intermediate 6:Slightly strong 7:Strong		
6	Leaf wax	10 plants	Observation	3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		
7	Leaf hair	10 plants	Observation	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		
8	Leaf undulation	10 plants	Observation	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		
9	Number of leaflets	10 plants	Observation	0:None 1:Almost none 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		
10	Leaf thickness	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick		
11	Petiole/midrib thickness	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick		At the largest part. Vertical section
12	Petiole/midrib shape	10 plants	Observation	3:Flat 4:Slightly flat 5:Intermediate 6:Slightly half-round 7:Half-round 8:Half round-round 9:Round		
13	Petiole/midrib veins	10 plants	Observation	3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		

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14	Petiole/midrib twisting	10 plants	Observation	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		
15	Petiole/midrib color	10 plants	Observation	1:White 2:Very pale green 3:Pale green 4:Slightly pale green 5:Green 6:Slightly pale purple 7:Pale purple 8:Purple 9:Dark purple		On abaxial surface
16	Petiole length	10 plants	Observation	0:None 1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Short:1/4, intermediate:2/4, long:3/4
17	Petiole overlap	10 plants	Observation	3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		
18	Petiole/midrib width of base	10 plants	Observation	1:Extremely narrow 2:Very narrow 3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide		
19	Tillering	10 plants	Observation	0:None 9:Tillering		
20	Enlargement of tap root	10 plants	Observation	0:None 1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large		
21	Maturity	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late		Evaluate relative earliness of maturity in each group of vegetable
22	Heading	10 plants	Observation	0:None-heading 9:Heading		
23	Bolting	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late		For those whose leaves are used
24	Plant posture when flowering	10 plants	Observation	3:Erect 4:Semi-erect 5:Intermediate 6:Semi- spreading 7:Spreading		For those flower buds and stalks are used
25	Number of branches	10 plants	Observation	3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		For those flower buds and stalks are used
26	Flower stalk color	10 plants	Observation	3:Pale green 4:Slightly pale green 5:Green 6:Slightly dark green 7:Dark green		For those flower buds and stalks are used

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27	Flower stalk thickness	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick	For those flower buds and stalks are used of primary branch	
28	Bud color	10 plants	Observation	3:Pale green 4:Slightly pale green 5:Green 6:Slightly dark green 7:Dark green	For those flower buds and stalks are used. Observe as a cluster of buds	
29	Bud pigmentation	10 plants	Observation	3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much	For those flower buds and stalks are used of anthocyanin	
30	Size of lateral bud cluster	10 plants	Observation	3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large	For those flower buds and stalks are used	

Plant		Chinese mustard		73(08010)	Secondary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Resistance to clubroot	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation
2	Resistance to soft rot	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation
3	Resistance to virus	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Resistance to downy mildew	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence or artificial inoculation
2	Resistance to Verticillium yellows	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence or artificial inoculation
3	Resistance to diamondback moth	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
4	Resistance to aphid	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
5	Resistance to green catapillar	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
6	Cold tolerance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate the degree of cold injury
7	Heat tolerance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate the degree of stunting under high temperature
8	Adaptability to hot season cropping	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate the difficulty of high quality production in hot season

Plant		Chinese mustard		73(08010)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant weight	10 plants	Measurement	g/plant (integer)		
2	Pungency	3 plants	Sensory	0:None 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong		Evaluate by biting fresh leaf
3	Quantity of pungent element	10 plants	Sensory	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		Evaluate by biting seeds

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Seed yield	10 plants	Measurement	g/plant (integer)		For oil varieties only
2	Suitability to thin-salted pickling	10 plants	Sensory	0:Not suitable 9:Suitable		
3	Taste	10 plants	Sensory	3:Bad 4:Slightly bad 5:Intermediate 6:Slightly good 7:Good		