

Plant		Bell pepper		70(08007)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Leaf length	10 plants	Measurement	cm (round to the 1st decimal place)		Length from leaf base to leaf apex in the largest leaf
2	Earliness of flowering	10 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		Date of the first flowering
3	Branching angle	10 plants	Measurement	(integer)		Angle of the first branching
4	Mature fruit length	10 plants	Measurement	cm (round to the 1st decimal place)		Length from fruit shoulder to the top of fruit in typical mature fruit
5	Index of fruit shape	10 plants	Measurement	* (round to the 2nd decimal place)		Ratio of length/the longest diameter of typical mature fruit
6	Shape of fruit apex	10 plants	Observation	1:Acute 3:Rounded 5:Depressed		Shape of fruit apex of typical fruit
7	Depth of stalk cavity	10 plants	Observation	0:None 1:Extremely shallow 2:Very shallow 3:Shallow 4:Slightly shallow 5:Intermediate 6:Slightly deep 7:Deep 8:Very deep 9:Extremely deep		Depth of stalk cavity of fruit
8	Immature fruit color	10 plants	Observation	1:Yellow 2:Light green 3:Green 4:Dark green 5:Purple		Color of typical immature fruit
9	Fruit attitude	10 plants	Observation	2:Very drooping 3:Drooping 4:Slightly drooping 5:Horizontal 6:Slightly erect 7:Erect 8:Very erect		Attitude of typical fruit on a plant
10	Wrinkle of fruit surface	10 plants	Observation	0:None 1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Slightly many 7:Many 8:Very many 9:Extremely many		Degree of wrinkle on surface of typical fruit

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant height	10 plants	Measurement	cm (integer)		Plant height at harvest time
2	Plant branching	10 plants	Observation	1:Extremely sparse 2:Very sparse 3:Sparse 4:Slightly sparse 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense		Density of branching
3	Number of leaves below the first branching	10 plants	Measurement	(integer)		Number of nodes under the first branching
4	Stem thickness	10 plants	Measurement	mm (round to the 1st decimal place)		Diameters of branch between the third and fifth branchings
5	Internode length	10 plants	Measurement	cm (round to the 1st decimal place)		Distance between the third and fifth branchings
6	Branch strength	10 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		Strength of typical branch against breaking
7	Number of axillary buds	10 plants	Observation	0:None 1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Slightly many 7:Many 8:Very many 9:Extremely many		Number of axillary buds below the first branching
8	Leaf color	10 plants	Observation	1:Extremely light 2:Very light 3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark 8:Very dark 9:Extremely dark		Color of typical leaf
9	Leaf width	10 plants	Measurement	cm (round to the 1st decimal place)		Width of the largest leaf
10	Petiole length	10 plants	Measurement	cm (round to the 1st decimal place)		Distance between the base of petiole and the base of leaf blade in the largest leaf
11	Undulation of whole leaves	10 plants	Observation	3:Level 4:Slightly level 5:Intermediate 6:Slightly pronounced 7:Pronounced		Degree of undulation of typical leaf
12	Flower color	10 plants	Observation	3:White 5:Light purple 7:Purple		Corolla color of typical flower

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13	Flower size	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	Size of typical flower
14	Pediceal length	10 plants	Observation	1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long 8:Very long 9:Extremely long	Length of typical pedicel
15	Anther color	10 plants	Observation	3:Cream 5:Light purple 7:Purple	Anther color of typical flower at dehiscent stage
16	Mature fruit color	10 fruits	Observation	3:Yellow 5:Orange 7:Red	Color of the typical mature fruit
17	Number of flowers per axil	10 fruits	Observation	1:1 2:2 3:3 4:4 5:5	Number of flowers per axil of typical plant
18	Fruit shape	10 fruits	Observation	1:Small conical 2:Small pear-shaped 3:Slender cylindrical 4:Slender conical 5:Heart-shaped 6:Large conical 7:Large cylindrical 8:Bell 9:Flattened	Shape of typical mature fruit
19	Length of fruit at commercial ripeness	10 fruits	Measurement	cm (round to the 1st decimal place)	The length of the longest typical fruit at commercial ripeness
20	Diameter of fruit at commercial ripeness	10 fruits	Measurement	cm (round to the 1st decimal place)	The maximum diameter of typical fruit at commercial ripeness
21	Thickness of fruit flesh	10 fruits	Measurement	mm (round to the 1st decimal place)	Thickness of fruit flesh at the center of typical mature fruit
22	Number of locules	10 fruits	Measurement	1:1 2:2 3:3 4:4	Number of locules in typical fruit
23	Anthocyanin of fruit	10 fruits	Observation	0:None 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong 8:Very strong 9:Extremely strong	Anthocyanin pigmentation of mature fruit at low temperature

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24	Glossiness of fruit	10 fruits	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	Glossiness of fruit at commercial ripeness
25	Depth of wrinkle on fruit surface	10 fruits	Observation	0:None 1:Extremely shallow 2:Very shallow 3:Shallow 4:Slightly shallowIntermed 5:Intermediate 6:Slightly deep 7:Deep 8:Very deep 9:Extremely deep	Depth of wrinkle on typical fruit at mature stage
26	Fruit pedicel strength	10 fruits	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	Strength of pedicel against breaking
27	Easiness of fruit detachment	10 fruits	Observation	1:Extremely easy 2:Very easy 3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard 8:Very hard 9:Extremely hard	Easiness of fruit detachment from calyx
28	Skin toughness	10 fruits	Observation	1:Extremely soft 2:Very soft 3:Soft 4:Slightly soft 5:Intermediate 6:Slightly hard 7:Hard 8:Very hard 9:Extremely hard	Toughness of skin of typical fruit
29	Pungency of fruit	10 fruits	Observation	0:None 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	Intensity of pungency in typical fruit
30	Number of fruits	10 plants	Observation	1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Slightly many 7:Many 8:Very many 9:Extremely many	Number of fruits per plant
31	Number of seeds per fruit	10 fruits	Measurement	1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Slightly many 7:Many 8:Very many 9:Extremely many	Number of seeds per typical mature fruit
32	Earliness of harvesting	10 plants	Observation	1:Extremely early 2:Very early 3:Early rather 4:Slightly early 5:Intermediate 6:Slightly late 7:Late Very 8:Very late 9:Extremely late	The first date of harvesting

Plant		Bell pepper		70(08007)	Secondary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Resistance to Tobacco Mosaic Virus	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	Artificial inoculation or natural infection
2	Resistance to Cucumber Mosaic Virus	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	Artificial inoculation or natural infection
3	Resistance to Phytophthora blight	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	Artificial inoculation or natural infection
4	Resistance to spider mite	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	Natural infection or artificial inoculation
5	Resistance to white fly	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	Natural infection or artificial inoculation

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Growth at low temperature	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		The ability of elongation at low temperature condition
2	Cold tolerance	10 plants	Observation	1:Extremely susceptible 2:Very susceptible 3:Susceptible 4:Slightly susceptible 5:Intermediate 6:Slightly tolerant 7:Tolerant 8:Very tolerant 9:Extremely tolerant		
3	Wet endurance	10 plants	Observation	1:Extremely susceptible 2:Very susceptible 3:Susceptible 4:Slightly susceptible 5:Intermediate 6:Slightly tolerant 7:Tolerant 8:Very tolerant 9:Extremely tolerant		The degree of wet-injury after excess moisture condition
4	Adaptability for greenhouse	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		Synthetic judgement according to the size elongation, fruit setting, fruit character, etc.

Plant	Bell pepper	70(08007)	Tertiary optional character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Degree of pungency	10 fruits	Sensory	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	Capsaicin content in the typical mature fruit