

Plant		Bitter gourd		529	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant growth type	5 plants	Observation	1:Determinate 2:Indeterminate		Growth habit of determinate or indeterminate type
2	Stem: length of internode of main stem	5 plants	Measurement	cm (round to the 1st decimal place)		Average length of internode of 15th-20th nodes at the time of the 20th leaf expanding of main stem
3	Leaf blade: size	5 plants	Measurement	cm (round to the 1st decimal place)		Size of maximum leaf blade
4	Plant: number of nodes up to node with 1st female flower	5 plants	Obs.&Measr.	3:Few 5:Medium 7:Many		Number of nodes up to node with 1st female flower at flowering
5	Fruit: length	10 fruits	Measurement	cm (round to the 1st decimal place)		Fruit length 20 days after flowering
6	Fruit: diameter	10 fruits	Measurement	cm (round to the 1st decimal place)		Fruit diameter 20 days after flowering
7	Fruit: shape in longitudinal section	10 fruits	Observation	1:Triangular 2:Ovate 3:Spindle-shaped 4:Oblong		Fruit shape in longitudinal section 20 days after flowering
8	Fruit: color of skin	10 fruits	Observation	1:White 2:Light green 3:Green 4:Dark green		Color of fruit skin 20 days after flowering
9	Wart: size	10 fruits	Observation	3:Small 5:Medium 7:Large		Wart size of fruit 20 days after flowering
10	Fruit: color of skin at ripe stage	10 fruits	Observation	1:Yellow 2:Orange 3:Reddish orange		Color of fruit skin at ripe stage
11	Fruit: bitterness	10 fruits	Observation	1:Absent 9:Present		Fruit bitterness 20 days after flowering
12	Fruit: intensity of bitterness	10 fruits	Observation	3:Weak 5:Medium 7:Strong		Intensity of fruit bitterness 20 days after flowering
13	Plant: bearing habit	5 plants	Observation	1:Main-vine bearing 2:Mixed bearing 3:Branch bearing		In full bearing
14	Seed: size	20 seeds	Measurement	mm (round to the 1st decimal place)		

Plant		Bitter gourd		529	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Stem: thickness of main stem	5 plants	Measurement	mm (round to the 1st decimal place)		Average diameter of the center of 15th-20th nodes at the time of the 20th leaf expanding of main stem
2	Stem: number of side shoots	5 plants	Measurement	* (round to the 1st decimal place)		Number of primary lateral branches developed on the 6th-15th nodes of main stem at the end of harvesting time
3	Leaf blade: intensity of green color	5 plants	Observation	3:Light 5:Medium 7:Dark		Intensity of green color of maximum leaf blade
4	Leaf blade: shape of apex	5 plants	Observation	1:Pointed 2:Medium 3:Circular		Shape of an apex lob of maximum leaf blade
5	Leaf blade: depth of lobing	5 plants	Obs.&Measr.	3:Shallow 5:Medium 7:Deep		Depth of lobing at apex of maximum leaf blade (the ratio of lob to leaf length)
6	Flower: number of male flowers	5 plants	Observation	3:Few 5:Medium 7:Many		Number of male flowers at 1st female flowering