

Plant		Cucumber		65(08001)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Seed shape	10 seeds	Measurement	* (round to the 2nd decimal place)		The ratio of width to length of seeds
2	Shape of cotyledon	5 plants	Measurement	* (round to the 2nd decimal place)		The ratio of width to length of cotyledons at the first true leaf expanding stage
3	Hypocotyl length	5 plants	Measurement	cm (round to the 1st decimal place)		Distance from the soil surface to the base of cotyledon at the first true leaf expanding stage
4	Plant type	5 plants	Observation	1:Dwarf 2:Self-pruning 3:Normal		
5	Plant height	5 plants	Measurement	cm (integer)		Distance from the soil surface to the shoot tip of the main stem at the time of the 20th leaf expanding or 5 days before the main stem is pinched
6	Internode length	5 plants	Measurement	cm (round to the 1st decimal place)		Average length of internode at the 10th-15th nodes at the time of the 20th leaf expanding or 5 days before the main stem is pinched
7	Leaf shape	5 plants	Observation	3:Round 5:Roundish pentagonal 7:Sharp pentagonal		Shape of the 6th-10th leaf at the time of the 20th leaf expanding or 5 days before the main stem is pinched
8	Leaf size	5 plants	Measurement	(round to the 1st decimal place)		Width of the 6th-10th fully unfolded leaf at the time of the 20th leaf expanding or 5 days before the main stem is pinched
9	First pistillate flower bearing node	5 plants	Observation	0:Not bearing 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Order of node which bears the 1st female or bisexual flower

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10	Sex type	5 plants	Observation	1:Androecious 2:Monoecious 3:Hermaphroditic and monoecious 4:Andromonoecious 5:Gynomonoecious 6:Gynoecious 7:Hermaphroditic		
11	Fruit shape at maturity for table use	5 plants, 10 fruits	Observation	1:Globular 2:Ovoid 3:Obovoid 4:Spindle-shaped 5:Elliptical 6:Cylindrical 7:Sickle-shaped 8:Snake-shaped		Observe at the peak harvest season
12	Fruit length at maturity for table use	5 plants, 10 fruits	Measurement	cm (round to the 1st decimal place)		Measure at the peak harvest season
13	Fruit width at maturity for table use	5 plants, 10 fruits	Measurement	cm (round to the 1st decimal place)		The position at one-third fruit length from the stem-end
14	Fruit color at maturity for table use	5 plants, 10 fruits	Observation	1:White 2:Yellow 3:Partly white 4:Light green 5:Medium green 6:Dark green		Observe at the peak harvest season
15	Wart size of fruit at maturity for table use	5 plants, 10 fruits	Observation	0:No warts 1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		Observe at the peak harvest season
16	Fruit spine color at maturity for table use	5 plants, 10 fruits	Observation	0:No spines 3:White 5:Brown 7:Black		Observe at the season of harvesting
17	Fruit color at maturity for seed harvest	5 plants, 10 fruits	Observation	1:White 2:Yellow 3:Yellowish green 4:Reddish brown 5:Brown 9:Other		
18	Net formation at maturity for seed harvest	5 plants, 10 fruits	Observation	0:Absent 1:Extremely sparse 2:Very sparse 3:Sparse 4:Slightly sparse 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense		

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1	Seed size	10 seeds	Measurement	mm (round to the 1st decimal place)		Length of seeds
2	Size of cotyledon	5 plants	Measurement	cm (round to the 1st decimal place)		Length of cotyledons at the first true leaf expanding stage
3	Color of cotyledon	5 plants	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green		Color of cotyledon at the first true leaf expanding stage
4	Thickness of hypocotyl	5 plants	Measurement	mm (round to the 1st decimal place)		Diameter of hypocotyls at the first true leaf expanding stage
5	Thickness of stem	5 plants	Measurement	mm (round to the 1st decimal place)		Diameter of main stems from the 10th-15th nodes at the time of the 20th leaf expanding or 5 days before the main stem is pinched
6	Degree of stem pubescence	5 plants	Observation	0:Absent 1:Extremely thin 2:Very thin 3:Thin 4:Slightly thin 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense		Degree of pubescence at the 10th-15th nodes of main stem at the time of the 20th leaf expanding or 5 days before the main stem is pinched
7	Time of lateral shoot emergence	5 plants	Observation	0:Absent 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 when the first primary lateral shoot reaches 10 cm in length
8	Number of lateral shoots	5 plants	Measurement	* (round to the 1st decimal place)		Number of primary lateral shoots from the 6th-15th nodes of the main stem at the end of harvesting time
9	Internode length of lateral shoot	5 plants	Measurement	cm (round to the 1st decimal place)		Length of the first internode of lateral shoots from the 6th-15th nodes of main stem at the end of harvesting time
10	Depth of sinus of leaves	5 plants	Observation	0:Absent 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 sinus of the 6th-10th leaf at the time of 20th leaf expanding or 5 days before main stem is pinched

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11	Degree of serration of leaves	5 plants	Observation	0:Absent 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly prominent 7:Prominent 8:Very prominent 9:Extremely prominent		Degree of serration of the 6th-10th leaf at the time of the 20th leaf expanding or 5 days before main stem is pinched
12	Degree of leaf pubescence	5 plants	Observation	0:Absent 1:Extremely thin 2:Very thin 3:Thin 4:Slightly thin 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense		Degree of pubescence of the 6th-10th leaf at the time of the 20th leaf expanding or 5 days before main stem is pinched
13	Leaf color	5 plants	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green		Color of the 6th-10th leaf at the time of the 20th leaf expanding or 5 days before main stem is pinched
14	Length of petiole	5 plants	Measurement	cm (round to the 1st decimal place)		Length of petiole of the 6th-10th leaf at the time of the 20th leaf expanding or 5 days before main stem is pinched
15	Multi-flowering of pistillate flowers	5 plants	Observation	1:One 2:Two 3:Three or more 9:Multi-flowering		Number of pistillate flowers per node at the peak harvest season
16	Shape of stem-end of fruit at maturity for table use	5 plants, 10 fruits	Observation	1:Depressed 2:Slightly depressed 3:Flattened 4:Slightly round 5:Rounded 6:Slightly pointed 7:Pointed		Observe at the peak harvest season
17	Shape of blossom-end of fruit at maturity for table use	5 plants, 10 fruits	Observation	1:Depressed 2:Slightly depressed 3:Flattened 4:Slightly round 5:Rounded 6:Slightly pointed 7:Pointed		Observe at the peak harvest season
18	Depth of furrow on fruit surface at maturity for table use	5 plants, 10 fruits	Observation	0:Absent 1:Extremely shallow 2:Very shallow 3:Shallow 4:Slightly shallow 5:Intermediate 6:Slightly deep 7:Deep 8:Very deep 9:Extremely deep		Observe at the peak harvest season
19	Pattern of fruit surface at maturity for table use	5 plants, 10 fruits	Observation	0:Absent 1:Faded yellow stripe 2:Yellow stripe (tip) 3:Yellow stripe (half) 4:Yellow stripe (full) 5:Faded white spot 6:White spot 7:Faded chinzy 8:Chinzy 9:Other		Observe at the peak harvest season

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20	Glossiness of fruit skin at maturity for table use	5 plants, 10 fruits	Observation	0:Absent 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly prominent 7:Prominent 8:Very prominent 9:Extremely prominent		Observe at the peak harvest season
21	Bloominess of fruit at maturity for table use	5 plants, 10 fruits	Observation	0:Absent 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly prominent 7:Prominent 8:Very prominent 9:Extremely prominent		Observe at the peak harvest season
22	Density of warts of fruit	5 plants, 10 fruits	Observation	0:Absent 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Observe at the peak harvest season
23	Spine size of fruit at maturity for table use	5 plants, 10 fruits	Observation	0:Absent 1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		Observe at the peak harvest season
24	Shape of the cross section of fruit at maturity for table use	5 plants, 5 fruits	Observation	1:Rounded 2:Triangular and round 3:Triangular 4:Sharply triangular		Observe at the peak harvest season
25	Thickness of flesh at maturity for table use	5 plants, 5 fruits	Observation	1:Extremely thin 2:Very thin 3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick 8:Very thick 9:Extremely thick		Observe at the peak harvest season
26	Flesh color at maturity for table use	5 plants, 5 fruits	Observation	3:White 4:White to milky green 5:Milky green 6:Milky green to light green 7:Light green		Observe at the peak harvest season
27	Surface of fruit at maturity for seed harvest	5 plants, 3 fruits	Observation	1:Smooth 2:Ridgy 3:Warty		

Plant		Cucumber		65(08001)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Resistance to Fusarium wilt	5 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 for young seedling or natural infection in field
2	Resistance to downy mildew	5 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 for young seedling or natural infection in field
3	Resistance to powdery mildew	5 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 for young seedling or natural infection in field
4	Resistance to virus diseases	5 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 for young seedling or natural infection in field
5	Resistance to nematodes	5 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 for young seedling or natural infection in field
6	Time of harvesting	5 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 harvesting of half of the plants investigated

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1	Resistance to bacterial spot	5 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 for young seedling or natural infection in field
2	Resistance to gummy stem blight	5 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 for young seedling or natural infection in field
3	Resistance to scab	5 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 for young seedling or natural infection in field
4	Resistance to Phytophthora rot	5 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 for young seedling or natural infection in field
5	Resistance to aphid	5 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 for young seedling or natural infection in field
6	Resistance to Aulacophora femoralis	5 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 for young seedling or natural infection in field
7	Tolerance to high temperature	5 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		Seedling or field test
8	Tolerance to low temperature	5 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		Seedling or field test
9	Vigor of root expansion	5 plants	Observation	1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly vigorous 7:Vigorous 8:Very vigorous 9:Extremely vigorous		Seedling or field test

Plant		Cucumber		65(08001)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Fruit bearing position	5 plants	Observation	1:On the main stem only 2:On the main stem and lateral 3:On lateral shoots only		The position of pistillate flowers on vines at the end of harvesting time
2	Fruit weight at maturity for table use	5 plants, 10 fruits	Measurement	g (round to the 1st decimal place)		Measure at the peak harvest season
3	Bitterness of fruit	5 plants, 10 fruits	Sensory	0:Absent 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Evaluate at the peak harvest season by sensory test



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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks	
1	Fruit re-bearing	5 plants	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	Frequency of fruit re-bearing at the same node at the end of harvesting time	
2	Parthenocarpy	5 plants	Observation	0:Absent 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	Fruit setting ability of non-pollinated female or bisexual flowers at the best season for harvesting	
3	Yield	5 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		
4	Eating quality of fresh fruit	5 plants, 5 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	Evaluate at the best season for harvesting	
5	Storability	5 plants, 5 fruits	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	Evaluate at the best season for harvesting	
6	Hardness of fruit skin	5 plants, 5 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	Evaluate at the mid season of harvesting by sensory test	
7	Hardness of flesh	5 plants, 5 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	Evaluate at the peak harvest season by sensory test	
8	Weight of ripe fruit	5 plants, 10 fruits	Measurement	g (integer)		
9	Sweetness of ripe fruit	5 plants, 10 fruits	Measurement	% (round to the 1st decimal place)	Brix of juice by refractometer	