

Plant		Western melon		67(08004)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Leaf length	5 plants	Measurement	cm (round to the 1st decimal place)		Average length of the 10th-15th true leaves on the main vine at mature-green fruit stage
2	Number of leaves	5 plants	Measurement	* (round to the 1st decimal place)		Number of leaves on the main vine at just before the pinching operation of the earliest entry
3	Main vine length	5 plants	Measurement	cm (round to the 1st decimal place)		Distance from the base to the tip of the main vine at just before the pinching operation of the earliest entry
4	Internode length	5 plants	Measurement	cm (round to the 1st decimal place)		Average length of the 10th-15th nodes on the main vine at harvest time
5	Sex of flower	5 plants	Observation	1:Androecious 2:Monoecious 3:Trimonoecious 4:Andromonoecious 5:Gynomonoecious 6:Gynoecious 7:Hermaphroditic		Observe at the flowering time
6	Female flower bearing ratio	5 plants	Measurement	% (integer)		Number of female (or hermaphrodite) flowers occurring on the first node of branch vine of the 10th-15th nodes on the main vine in case of the supporting culture and on the first node of tertiary vine in case of the ground culture is counted and expressed in percentage
7	Fruit setting stability	5 plants	Measurement	% (integer)		Express as fruit setting percentage of female (or hermaphrodite) flowers pollinated on the first node of the branch vine of the 10th-15th nodes on the main vine in case of supporting culture and on the first node of tertiary vine in case of ground culture
8	Fruit shape	5 fruits	Observation	1:Extremely flat 2:Very flat 3:Flat 4:Slightly flat 5:Round 6:Slightly long 7:Long 8:Very long 9:Extremely long		Shape of mature fruit

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9	Fruit weight	5 fruits	Observation	1:Extremely light 2:Very light 3:Light 4:Slightly light 5:Intermediate 6:Slightly heavy 7:Heavy 8:Very heavy 9:Extremely heavy	Classify into extremely light:below 100g, very light:101-300 g, light:301-600 g, slightly light:601-1000 g, intermediate:1001-1400 g, slightly heavy:1401-1800 g, heavy:1801-2200 g, very heavy:2201-3000 g, extremely heavy:over 3000 g
10	Fruit skin color	5 fruits	Observation	0:White 1:Yellow 2:Orange 3:Red brown 4:Brown 5:Light green 6:Gray 7:Gray green 8:Green 9:Dark green	Skin color of mature fruit
11	Surface condition of fruit	5 fruits	Observation	1:Smooth 2:Slightly ribbed 3:Deeply ribbed 4:Slightly wrinkled 5:Deeply wrinkled 6:Rare warts 7:Numerous warts	Surface condition of mature fruit
12	Net density	5 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	Net density of mature fruit

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1	Seed length	50 seeds	Measurement	mm (round to the 1st decimal place)		Length of dried ripe seeds
2	Seed thickness	50 seeds	Measurement	mm (round to the 1st decimal place)		Thickness of dried ripe seeds
3	Seed shape	10 seeds	Observation	1:Round 3:Broad egg type 5:Egg type 7:Slender egg type 9:Other		Shape of dried ripe seeds
4	Seed color	10 seeds	Observation	3:White 4:Rather yellow 5:Yellow 6:Rather brown 7:Brown		Coat color of dried ripe seeds
5	100 seed weight	100 seeds	Measurement	mg (integer)		Weight of dried ripe seeds
6	Cotyledon length	20 seeds	Measurement	cm (round to the 1st decimal place)		Length of cotyledon at the full expansion time of the first true leaf
7	Cotyledon color	10 plants	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green		Color of cotyledon at the full expansion time of the first true leaf
8	Hypocotyl length	20 plants	Measurement	cm (round to the 1st decimal place)		Measure at the full expansion time of the first true leaf
9	Hypocotyl diameter	20 plants	Measurement	mm (integer)		Measure at the full expansion time of the first true leaf
10	Plant type	5 plants	Observation	1:Self topping 2:Bush 3:Intermediate 4:Creeping		
11	Main vine diameter	20 plants	Measurement	cm (round to the 1st decimal place)		Diameter of the main vine at the center between the 10th and 11th nodes at mature-green stage
12	Shape of cross section of main vine	5 plants	Observation	3:Round 4:Slightly round 5:Intermediate 6:Slightly triangular 7:Triangular		Cross section of the main vine at the center between the 10th and 11th nodes at mature-green fruit stage
13	Degree of pubescence on main vine	5 plants	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		Pubescence of the 10th-15th internodes at mature-green fruit stage

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14	Leaf width	5 plants	Observation	cm (round to the 1st decimal place)	Leaf width of the 10th-15th true leaves at mature-green fruit stage
15	Petiole length	5 plants	Measurement	cm (round to the 1st decimal place)	Petiole length of the 10th-15th true leaves at mature-green fruit stage
16	Leaf lobes	5 plants	Observation	1:Round 2:Slightly round 3:Absent 4:Slightly shallow 5:Shallow 6:Rather shallow 7:Intermediate 8:Slightly deep 9:Deep	Leaf lobes of the 10th-15th true leaves at mature-green fruit stage
17	Serration of leaf margin	5 plants	Observation	0:Absent 9:Present	Serration of the 10th-15th true leaves at mature-green fruit stage
18	Leaf pubescence density	5 plants	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	Pubescence density of the 10th-15th true leaves at mature-green fruit stage
19	Leaf color	5 plants	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green	Leaf color of the 10th-15th true leaves at mature-green fruit stage
20	Leaf gloss	5 plants	Observation	3:Very slight 4:Slight 5:Intermediate 6:Pronounced 7:Very pronounced	Leaf gloss of the 10th-15th true leaves at mature-green fruit stage
21	Petiole divergence	5 plants	Observation	3:Upright 4:Semi-upright 5:Intermediate 6:Semi-open 7:Open 8:Vertical 9:Downward	Petiole divergence of the 10th-15th true leaves at mature-green fruit stage
22	Existence of stipule	5 plants	Observation	0:Absent 9:Present	Stipule of the 10th-15th true leaves at mature-green fruit stage
23	Existence of tendrils	5 plants	Observation	0:Absent 9:Present	Tendrils of the 10th-15th true leaves at mature-green fruit stage
24	Plant vigor	5 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	Plant vigor at harvest time

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25	Ovary shape	20 flowers	Observation	1:Flat 2:Slightly flat 3:Round 4:Slightly oval 5:Oval 6:Slightly spindly 7:Spindly 8:Very spindly 9:Extremely spindly	Observe at flowering time of female (or hermaphrodite) flower of the 10th-15th nodes on the main vine
26	Ovary size	20 flowers	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	Observe at flowering time of female (or hermaphrodite) flower of the 10th-15th nodes on the main vine
27	Female flower bearing habit	5 plants	Observation	1:Primary vine 3:Primary and secondary vines 5:Whole vine 7:Secondary and tertiary vine 9:Tertiary vine	Female flower bearing on the primary, secondary and tertiary vines
28	Number of male flowers	5 plants	Observation	0:Absent 1:Almost none 2:Extremely few 3:Very few 4:Few 5:Intermediate 6:Some 7:Many 8:Very many 9:Extremely numerous	Number of male flowers on the 10th-15th nodes
29	Peduncle length of female	20 flowers	Measurement	mm (integer)	Measure at flowering time of female flower on the 10th-15th nodes
30	Petal color	20 flowers	Observation	3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark	Petal color of male flower on the 10th-15th nodes
31	Amount of pollen	20 flowers	Measurement	0:Absent 1:Extremely little 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much 8:Very much 9:Extremely much	Evaluate at mature-green fruit stage
32	Young fruit color	5 fruits	Observation	3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark	
33	Fruit shape index	5 fruits	Measurement	* (round to the 2nd decimal place)	Fruit length/fruit width
34	Stem-end fruit shape	5 fruits	Observation	3:Pointed 4:Slightly pointed 5:Intermediate 6:Slightly depressed 7:Depressed	Observe at harvest time
35	Blossom-end fruit shape	5 fruits	Observation	3:Pointed 4:Slightly pointed 5:Intermediate 6:Slightly depressed 7:Depressed	Observe at harvest time
36	Existence of mottle of fruit skin	5 fruits	Observation	0:Absent 9:Present	Observe at harvest time

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37	Color of mottle of fruit skin	5 fruits	Observation	0:White 1:Yellow 2:Orange 3:Red brown 4:Brown 5:Light green 6:Gray 7:Grayish green 8:Green 9:Dark green		Observe at harvest time
38	Height of net of fruit	5 fruits	Observation	0:No net 1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Net height on mature fruit
39	Peduncle length	5 fruits	Observation	3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Observe at harvest time
40	Peduncle diameter	5 fruits	Observation	3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large		Observe at harvest time
41	Flower scar diameter of fruit	5 fruits	Measurement	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 harvest time
42	Flower scar shape of fruit	5 fruits	Observation	3:Concave 4:Slightly concave 5:Flat 6:Slightly convex 7:Convex		Observe at harvest time
43	Fruit cracking habit in field	5 fruits	Observation	0:Absent 1:Extremely little 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much 8:Very much 9:Extremely much		Observe at harvest time
44	Peduncle separation from fruit	5 fruits	Observation	3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard		Peduncle separation of mature fruit

Plant		Western melon		67(08004)	Secondary essential character
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1	Resistance to powdery mildew	20 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	Evaluate based on symptoms in the nursery or field test
2	Resistance to fusarium wilt	20 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	Evaluate based on symptoms in the nursery or field test
3	Resistance to gummy stem blight	20 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	Evaluate based on symptoms in the nursery or field test
4	Resistance to downy mildew	20 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	Evaluate based on symptoms in the nursery or field test
5	Resistance to water-melon mosaic virus	20 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	Evaluate based on symptoms in the nursery or field test
6	Resistance to aphids	20 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	Evaluate based on symptoms in the nursery or field test
7	Degree of physical leaf withering	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	Observe after fruiting time
8	Time of fruit bearing	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	Days after fruiting time

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1	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		Evaluate based on symptoms in the field test
2	Resistance to cucumber green mottle 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		Evaluate based on symptoms in the field test
3	Resistance to phytophthora rot	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		Evaluate based on symptoms in the field test
4	Resistance to bacteria spot	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		Evaluate based on symptoms in the field test
5	Resistance to root knot nematode	20 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		Evaluate based on symptoms in the field test
6	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		Evaluate based on symptoms in the field test
7	Resistance to cucurbit leaf beetle	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		Evaluate based on symptoms in the field test
8	Resistance to thrips palmi	20 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		Observe in the field
9	Growth under low temperature	10 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate in the nursery or field test
10	Fruit setting under low temperature	10 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate in the field test
11	Sugar accumulation under low temperature	10 plants	Measurement	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate the brix of fruit in the field test

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12	Fruit setting under high temperature	10 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluate in the field test
13	Sugar accumulation under high temperature	10 plants	Measurement	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluate the brix of fruit in the field test
14	Tolerance to poor sunshine	10 plants	Measurement	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluate in the field test
15	Tolerance to excess soil moisture	10 plants	Observation	3:Susceptible 4:Slightly susceptible 5:Intermediate 6:Slightly tolerant 7:Tolerant	Evaluate in the field test
16	Amount of roots per plant	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	Amount of roots per plant in the field test

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1	Flesh color	5 fruits	Observation	1:Green 2:Light green 3:Yellowish green 4:Light yellow green 5:White 6:Yellow 7:Orange 8:Orange to orange red 9:Orange red	Observe at the optimum consumption time
2	Flesh texture	10 fruits	Sensory	3:Mealy 5:Fragile 7:Non mealy 9:Melting	Evaluate at the optimum consumption time
3	Flesh thickness	10 fruits	Observation	3:Thin 5:Intermediate 7:Thick	Classify by the ratio of flesh thickness to radius at equator part. thin:<45, intermediate:45-60, thick:>61
4	Brix value of flesh	10 fruits	Measurement	% (round to the 1st decimal place)	Average Brix of upper, equator and lower parts of fruit at the optimum consumption time
5	Eating quality	10 fruits	Sensory	1:Makuwa type 2:Winter melon type 3:Net melon type 4:Cantaloupe type 9:Other	Evaluate at the optimum consumption time by sensory test
6	Fruit flavor	10 fruits	Sensory	1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong 8:Very strong 9:Extremely strong	Evaluate flavor of fruit preserved at 25 centidegree at the optimum consumption time by sensory test
7	Days to ripening	10 fruits	Observation	1:Extremely early 3:Early 5:Intermediate 7:Late 9:Extremely late	Days from pollination to harvest in spring culture test. Extremely early:<35 days, early:36-40 days, intermediate:41-50 days, late:51-60 days, extremely late:61 days
8	Time from harvesting to ripening	10 fruits	Observation	0:None 1:Extremely short 3:Short 5:Intermediate 7:Long 9:Extremely long	Days from harvesting to ripening at 25 centidegree in spring culture test. None:0 day, extremely short:1-2 days, short:3-5 days, intermediate:6-10 days, long:11-20 days, extremely long:> 21 days

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9	Fruit storability	10 fruits	Observation	1:Extremely short 3:Short 5:Intermediate 7:Long 9:Extremely long	Days from harvesting to the optimum consumption time of fruit preserved at 25 centidegree in the spring culture test. Extremely short:1-2 days, short:3-5 days, intermediate:6-10 days, long:11-20 days, extremely long:over 21 days
10	Tendency of fruit to ferment	10 fruits	Observation	1:Extremely easy 2:Very easy 3:Easy 4:Slightly easy 5:Intermediate 6:Slightly difficult 7:Difficult 8:Very difficult 9:Extremely difficult	Evaluate at the optimum consumption time in the spring culture test

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1	Dry matter weight of fruit	10 fruits	Measurement	g (integer)		Dry weight of mature fruits
2	Firmness of flesh	10 fruits	Measurement	1:Extremely soft 2:Very soft 3:Soft 4:Slightly soft 5:Intermediate 6:Slightly fine 7:Fine 8:Very fine 9:Extremely fine		Firmness of the optimum mature fruit
3	Firmness of fruit skin	10 fruits	Measurement	1:Extremely soft 2:Very soft 3:Soft 4:Slightly soft 5:Intermediate 6:Slightly hard 7:Hard 8:Very hard 9:Extremely hard		Evaluate at the harvest time by Autograph or Force guage
4	Placenta condition	10 fruits	Observation	3:Moist 4:Slightly moist 5:Intermediate 6:Slightly dry 7:Dry		Condition of placenta of mature fruits
5	Placenta shape	10 fruits	Observation	3:Round 7:Chrysanthemum flower pattern		Evaluate at the harvest time by cutting test
6	Flesh melting	10 fruits	Sensory	0:Absent 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate at the optimum consumption time by sensory test
7	Quantity of fibers in flesh	10 fruits	Sensory	0:Absent 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate at the optimum consumption time by sensory test
8	Fruit flavor	10 fruits	Sensory	1:Makuwa type 2:Winter melon type 3:Net melon type 4:Cantaloupe type 9:Other		Evaluate the optimum mature fruit preserved at 25 centidegree by sensory in the spring culture test
9	Acidity of fruit	5 fruits	Observation	0:None 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong		Evaluate the optimum mature fruit by sensory test
10	Bitterness of fruit	5 fruits	Observation	0:None 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong		
11	Sugar composition of flesh	5 fruits	Measurement	1:S+F+G 2:S+F 3:S+G 4:S 5:F+G		S:Sucrose, F:Fluctose, G:Glucose
12	Sucrose content of flesh	5 fruits	Measurement	g (round to the 1st decimal place)		Sucrose content (g) per 100 g fresh weight of flesh

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13	Fluctose content of flesh	5 fruits	Measurement	g (round to the 1st decimal place)		Fluctose content (g) per 100 g fresh weight of flesh
14	Glucose content of flesh	5 fruits	Measurement	g (round to the 1st decimal place)		Glucose content (g) per 100 g fresh weight of flesh
15	Oxalic acid content of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Oxalic acid content (mg) per 100 g flesh weight of flesh
16	Citric acid content of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Citric acid content (mg) per 100 g fresh weight of flesh
17	Malic acid content of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Malic acid content (mg) per 100 g fresh weight of flesh
18	Fumaric acid content of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Fumaric acid content (mg) per 100 g fresh weight of flesh
19	Tartaric acid content of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Tartaric acid content (mg) per 100 g fresh weight of flesh
20	Cis-aconitic acid content of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Cis-aconitic acid content (mg) per 100 g fresh weight of flesh
21	Alcohol insoluble solid content of flesh	5 fruits	Measurement	g (round to the 1st decimal place)		Alcohol insoluble solid content (g) per 100 g fresh weight of flesh
22	Water soluble pectin of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Water soluble pectin content (mg) per 100 g fresh weight of flesh
23	Hexametaphosphate soluble pectin of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Hexametaphosphate soluble pectin content (mg) per 100 g fresh weight of flesh
24	Hydrochloric acid soluble pectin of flesh	5 fruits	Measurement	mg (round to the 1st decimal place)		Hydrochloric acid soluble pectin content (mg) per 100 g fresh weight of flesh