	Plant	Western melon			444		Primary essential character	
No	Cha	aracters	No. of samples	Method	ls		Rank or measurement unit	Remarks
1	Plant typ	е	5 plants	Observati	on	2:Self top 5:Normal	pping 3:Bush 4:Intermediate	
2	Internode	length	5 plants	Measurement cm (roun		cm (round	to the 1st decimal place)	Average length of the 10th-15th nodes on the main vine at mature-green fruit stage
3	Leaf blade size length 5 plants		5 plants	Measurement cm		cm (round	to the 1st decimal place)	Length of the 5th-8th true leaves on the main vine at mature-green fruit stage
4	Sex of flo	ower	5 plants	Observati	on	4:Andromon	ious 2:Monoecious 3:Trimonoecious noecious 5:Gynomonoecious ous 7:Hermaphroditic	
5	Female floratio	ower bearing	5 plants	Measureme:	nt	% (intege:	r)	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
6	Fruit sha	pe	5 fruits	Observati	on	1	2:Medium elliptic 3:Broad elliptic r 5:Quadrangular 6:Oblate 7:Obovate ted	Mature fruit
7	Ground co	lor of skin	5 fruits	Observati	on	1:White	2:Yellow 3:Green 4:Gray	Mature fruit
8	Warts of	fruit	5 fruits	Observati	on	0:Absent	9:Present	Mature fruit
9		of attachment	5 fruits	Observati	on	4:Slightl	ly weak 2:Very weak 3:Weak y weak 5:Medium 6:Slightly strong 8:Very strong 9:Extremely strong	Mature fruit
10	Fruit gro	oves	5 fruits	Observati	on	1	1:Very weakly expressed 2:Weakly 3:Strongly expressed	Mature fruit
11	Crease of	fruit surface	5 fruits	Observati	on	4:Slight	1:Extremely weak 2:Very weak 3:Weak ly weak 5:Medium 6:Slightly strong 8:Very strong 9:Extremely strong	Mature fruit

	Plant Western melo	n	444	ł	Primary essential character	
No	Characters	No. of samples	Methods		Rank or measurement unit	Remarks
	Density of cork	5 fruits	Observation	3:Sparse	4:Slightly sparse 5:Intermediate y dense 7:Dense 8:Very dense	Mature fruit
13	Fruit weight	5 fruits	Measurement	g (intege	r)	Mature fruit
14	Seed length	20 seeds	Measurement	mm (round	to the 1st decimal place)	

	Plant	Western melon		4	44	Primary optional character	
No	Char	racters	No. of samples	Methods		Rank or measurement unit	Remarks
1	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
2	Cotyledon	length	5 plants	Measurement	cm (round	to the 1st decimal place)	Length of cotyledon at the full expansion time of the first true leaf
3	Cotyledon	width	5 plants	Measurement	cm (round	to the 1st decimal place)	Width of cotyledon at the full expansion time of the first true leaf
4	Intensity color of c	_	5 plants	Observation	4:Slightl	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Observe at the full expansion time of the first true leaf
5	Main vine	length	5 plants	Measurement	cm (round	to the 1st decimal place)	Distance from the base to the tip of the main vine just before the pinching operation of the earliest entry
6	Main vine	diameter	5 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 fruit stage
7	Density of on main vi		5 plants	Observation	3:Sparse	1:Extremely sparse 2:Very sparse 4:Slightly sparse 5:Intermediate y dense 7:Dense 8:Very dense ly dense	Observe at mature-green fruit stage
8	Leaf width		5 plants	Measurement	cm (round	to the 1st decimal place)	Width of the 5th-8th true leaves on the main vine at mature-green fruit stage
9	Intensity color of l		5 plants	Observation	4:Slightl	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Observe the 5th-8th true leaves on the main vine at mature- green fruit stage
10	Developmen leaf blade	t of lobes of	5 plants	Observation	4:Slightl	ly weak 2:Very weak 3:Weak y weak 5:Medium 6:Slightly strong 8:Very strong 9:Extremely strong	Observe the 5th-8th true leaves on the main vine at mature- green fruit stage

	Plant	Western melon			444		Primary optional character	
No	Cha	aracters	No. of samples	Method	ls		Rank or measurement unit	Remarks
11	Length of of leaf b	terminal lobe	5 plants	Observati	on	4:Slightl	ly short 2:Very short 3:Short y short 5:Intermediate 6:Slightly ong 8:Very long 9:Extremely long	Observe the 5th-8th true leaves on the main vine at mature- green fruit stage
12	Number of	leaves	5 plants	Measureme:	nt	* (round	to the 1st decimal place)	Number of leaves on the main vine just before the pinching operation of the earliest entry
13	Leaf shap	e	5 plants	Observati	on		2:Slightly round 3:Intermediate y angle 5:Angle	Observe the 5th-8th true leaves on the main vine at mature- green fruit stage
14	Serration margin	of leaf	5 plants	Observati	on	0:Absent	9:Present	Observe the 5th-8th true leaves on the main vine at mature- green fruit stage
15	Attitude	of petiole	5 plants	Observati	on	1:Elect	3:Semi-elect 5:Horizontal	Observe the 5th-8th true leaves on the main vine at mature- green fruit stage
16	Petiole l	ength	5 plants	Measureme:	nt	cm (round	to the 1st decimal place)	Petiole length of the 5th-8th true leaves on the main vine at mature-green fruit stage
17	Female flohabit	ower bearing	5 plants	Observati	on	_	vine 3:Primary and secondary vines ine 7:Secondary and tertiary vine y vine	Female flower bearing on the primary, secondary and tertiary vines
18	Hue of gro		5 fruits	Observati	on	1:Whitish 4:Grayish	green 2:Yellowish green 3:Green green	Observe at three weeks after pollination
19	Intensity color of skin	of green	5 fruits	Observati	on	4:Slightl	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Observe at three weeks after pollination
20	Density o		5 fruits	Observati	on	3:Sparse	1:Extremely sparse 2:Very sparse 4:Slightly sparse 5:Intermediate y dense 7:Dense 8:Very dense ly dense	Observe at three weeks after pollination
21	Size of d	ots of young	5 fruits	Observati	on	4:Slightl	ly small 2:Very small 3:Small y small 5:Intermediate 6:Slightly Large 8:Very large 9:Extremely large	Observe at three weeks after pollination

	Plant	Western melon			444		Primary optional character	
No	Cha	aracters	No. of samples	Method	s		Rank or measurement unit	Remarks
22	Contrast color/gro young fru	und color of	5 fruits	Observation	on	1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Medium 6:Slightly strong 7:Strong 8:Very strong 9:Extremely strong		Observe at three weeks after pollination
23	Conspicuo groove co young fru	loring of	5 fruits	Observation	on	0:Absent 1:Extremely weak 2:Very weak 3: 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong 8:Very strong 9:Extremely strong		Observe at three weeks after pollination
24	_	of groove	5 fruits	Observatio	on	4:Slightly	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Observe at three weeks after pollination
25	Peduncle young fru	_	5 fruits	Measuremen	nt	cm (round	to the 1st decimal place)	Measure at three weeks after pollination
26	Thickness	_	5 fruits	Measuremen	nt	mm (round	to the 1st decimal place)	Measure diameter of central part of peduncle at three weeks after pollination
27		nd peduncle of	5 fruits	Observation	on	3:Small 4	1:Extremely small 2:Very small 4:Slightly small 5:Intermediate y large 7:Large 8:Very large ly large	Observe at three weeks after pollination
28		skin color g fruit to	5 fruits	Observation	on	_	n fruit development 2:Late in fruit nt 3:Very late in fruit development nge	
29	Fruit len	gth	5 fruits	Measureme	nt	cm (round	to the 1st decimal place)	Mature fruit
30	Fruit dia	meter	5 fruits	Measuremen	nt	cm (round	to the 1st decimal place)	Mature fruit
31		gth / diameter ape index)	5 fruits	Measuremen	nt	* (round	to the 2nd decimal place)	Mature fruit
32	(Fruit shape index) Position of maximum 5 fruits diameter of fruit		Observatio	on	1:Toward s	stem end 2:At middle 3:Toward nd	Mature fruit	

	Plant	Western melon			444		Primary optional character	
No	Cha	aracters	No. of samples	Method	ls		Rank or measurement unit	Remarks
33		of ground fruit skin	5 fruits	Observati	on	4:Slightl	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Mature fruit
34	Density o	f dots of	5 fruits	Observati	on	3:Sparse	1:Extremely sparse 2:Very sparse 4:Slightly sparse 5:Intermediate y dense 7:Dense 8:Very dense ly dense	Mature fruit
35	Size of dots of fruit 5 fruits Color of dots of fruit 5 fruits			Observati	on	4:Slightl	ly small 2:Very small 3:Small y small 5:Intermediate 6:Slightly Large 8:Very large 9:Extremely large	Mature fruit
36	Color of	dots of fruit	5 fruits	Observati	on	1:White	2:Yellow 3:Green	Mature fruit
37	Intensity dots of f		5 fruits	Observati	on	4:Slightl	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Mature fruit
38	Density o	f patches of	5 fruits	Observati	on	3:Sparse	1:Extremely sparse 2:Very sparse 4:Slightly sparse 5:Intermediate y dense 7:Dense 8:Very dense ly dense	Mature fruit, different from dots
39	Size of p	atches of	5 fruits	Observati	on	4:Slightl	ly small 2:Very small 3:Small y small 5:Intermediate 6:Slightly Large 8:Very large 9:Extremely large	Mature fruit
40	Shape of fruit	stem-end of	5 fruits	Observati	on	1:Pointed	2:Rounded 3:Truncate	Mature fruit
41	Shape of fruit	blossom-end of	5 fruits	Observati	on	1:Pointed	2:Rounded 3:Truncate	Mature fruit
42	Size of p	istil scar of	5 fruits	Measureme	nt	cm (round	to the 1st decimal place)	Mature fruit

	Plant	Western melon			444		Primary optional character	
No	Cha	aracters	No. of samples	Method	ls		Rank or measurement unit	Remarks
43	Depth of	fruit grooves	5 fruits	Observati	on	4:Slightl	ly shallow 2:Very shallow 3:Shallow y shallow 5:Intermediate 6:Slightly eep 8:Very deep 9:Extremely deep	Mature fruit
44	Color of	fruit grooves	5 fruits	Observation 1:White		1:White	2:Yellow 3:Green	Mature fruit
45	Thickness of fruit	of cork layer	5 fruits	Observati	on	4:Slightl	ly thin 2:Very thin 3:Thin y thin 5:Intermediate 6:Slightly Thick 8:Very thick 9:Extremely thick	Mature fruit
46	Pattern o	f cork	5 fruits	Observati	on		ly 2:Dots and linear 3:Linear only and netted 5:Netted only	Mature fruit
47	Rate of c skin colo maturity maturity	-	5 fruits	Observati	on	4:Slight	1:Extremely slow 2:Very slow 3:Slow ly slow 5:Intermediate 6:Slightly ast 8:Very fast 9:Extremely fast	Mature fruit
48	Peduncle	length	5 fruits	Measureme:	nt	cm (round	to the 1st decimal place)	Mature fruit
49	Peduncle	diameter	5 fruits	Measureme:	nt	mm (round	to the 1st decimal place)	Mature fruit
50		lor of fruit	5 fruits	Observati	on	1:Yellow	2:Orangish yellow 3:Creamish	Only varieties with change of skin color from maturity to over maturity
51	_	fruit skin at	5 fruits	Observati	on	4:Slightl	ly light 2:Very light 3:Light y light 5:Medium 6:Slightly dark :Very dark 9:Extremely dark	Only varieties with change of skin color from maturity to over maturity and with yellow or orangish yellow color of skin
52	Seed widt	h	20 seeds	Measureme:	nt	mm (round	to the 1st decimal place)	
53	Seed shap	е	20 seeds	Observati	on	1:Not pin	e-nut shape 2:Pine-nut shape	
54	Seed colo	r	20 seeds	Observati	on	1:Whitish	2:Creamish	

	Plant	Western melon			444	Secondary essential character	
No	Characters No. of samples		Method	ls	Rank or measurement unit	Remarks	
_	Time of f	Time of female 5 plants		Obs.&Meas	4:s1	tremely early 2:Very early 3:Early ightly early 5:Medium 6:Slightly late 8:Very late 9:Extremely late	

	Plant	Western melon		1	444	Secondary optional character	
No	Cha	aracters	No. of samples	Methods	3	Rank or measurement unit	Remarks
1	Time of m	ale flowering	5 plants	4:Slightl		mely early 2:Very early 3:Early tly early 5:Medium 6:Slightly late 8:Very late 9:Extremely late	
2	Resistanc wilt	e to fusarium	10 plants	Observatio	n 0:Absent	9:Present	Resistance to Fusarium oxysporum f. sp. melonis Race 0, race 1, race 2 and race 1-2. Artificial inoculation for young seedling or natural infection in field.
3		e to powdery odosphaera	10 plants	Observatio	n 1:Suscepresistar		Resistance to powdery mildew (Sphaerotheca fuliginea (Podosphaera xanthii)). Artificial inoculation for young seedling or natural infection in field.
4		e to powdery clovinomyces arum)	10 plants	Observatio	n 1:Suscepresistar	otible 2:Moderately resistant 3:Highly	Resistance to powdery mildew (Erysiphe cichoracearum (Golovinomyces cichoracearum)). Artificial inoculation for young seedling or natural infection in field.
5	Resistanc colonizat gossypii	e to ion by Aphis	10 plants	Observatio	n 0:Absent	9:Present	Resistance to colonization by Aphis gossypii. Artificial inoculation for young seedling or natural infection in field.
6		e to zucchini saic virus	10 plants	Observatio	n 0:Absent	: 9:Present	Resistance to Zucchini Yellow Mosaic Virus. Artificial inoculation for young seedling or natural infection in field.
7		e to papaya virus (PRSV)	10 plants	Observatio	n 0:Absent	9:Present	Resistance to Papaya Ring Spot Virus (PRSV). Artificial inoculation for young seedling or natural infection in field.
8		e to melon spot virus	10 plants	Observatio	n 0:Absent	9:Present	Resistance to Melon Necrotic Spot Virus (MNSV). Artificial inoculation for young seedling or natural infection in field.

	Plant	Western melon			444		Secondary optional character		
No	Cha	aracters	No. of samples	Method	ls		Rank or measurement unit		Remarks
9		e to cucumber	10 plants	Observati	on	1:Suscept: resistant			Resistance to Cucumber Mosaic Virus (CMV). Artificial inoculation for young seedling or natural infection in field.
10	Resistance stem blig	e to gummy ht	10 plants	Observation		1:Suscept: resistant			Artificial inoculation for young seedling or natural infection in field
11	Resistance mildew	e to downy	10 plants	Observati	on	1:Suscept: resistant		Highly	Artificial inoculation for young seedling or natural infection in field
12		e to water- aic virus	10 plants	Observati	on	1:Suscept: resistant		Highly	Artificial inoculation for young seedling or natural infection in field
13		e to cucumber tle mosaic	10 plants	Observati	on	1:Suscept: resistant		Highly	Artificial inoculation for young seedling or natural infection in field
14	Resistanc		10 plants	Observati	on	1:Suscept: resistant			Artificial inoculation for young seedling or natural infection in field
15	Resistanc	e to root knot	10 plants	Observati	on	1:Suscept: resistant			Artificial inoculation for young seedling or natural infection in field
16	Resistanc mite	e to spider	10 plants	Observati	on	1:Suscept: resistant		Highly	Artificial inoculation for young seedling or natural infection in field
17	Resistanc	e to Thrips	10 plants	Observati	on	1:Suscept:		Highly	Artificial inoculation for young seedling or natural infection in field
18	Degree of	physical leaf	5 plants	Observati	on	low 5:Int	ly low 2:Very low 3:Low 4:Slig termediate 6:Slightly high 7:H gh 9:Extremely high		Observe after fruiting time

	Plant Western melon			44	44	Secondary optional character	
No	Cha	racters	No. of samples	Methods		Rank or measurement unit	Remarks
	Resistance to Melon yellow spot virus		10 plants	Observation	1:Suscept resistant		Artificial inoculation for young seedling or natural infection in field

^{*} Unlisted item in Genebank Descriptor

	Plant	Western melon			444		Tertiary essential character	
No	Cha	racters	No. of samples	Methods			Rank or measurement unit	Remarks
1	Flesh thic	ckness	5 fruits	Measureme	rement mm (round		to the 1st decimal place)	Mature fruit
2	Flesh cold	or	5 fruits				2:Greenish white 3:Green 4:Yellowish Orange 6:Reddish Orange	Mature fruit
3	Flesh text	ure	5 fruits	Sensory		3:Mealy	5:Fragile 7:Non mealy 9:Melting	Evaluate at the optimum consumption time
4	Fruit flav	70r	5 fruits	Sensory		4:Slightl	ly weak 2:Very weak 3:Weak y weak 5:Intermediate 6:Slightly :Strong 8:Very strong 9:Extremely	Evaluate at the optimum consumption time
5	Eating qua	ality	5 fruits	Sensory			type 3:Makuwa type 5:Net melon type melon type 9:Other	Evaluate at the optimum consumption time
6	Total solu	able solids of	5 fruits	Measureme	nt	% (round	to the 1st decimal place)	Brix of central part of fresh at maturity time
7	Time of ri	pening	5 fruits	Obs.&Meas	-	4:Slightl	ly early 2:Very early 3:Early y early 5:Medium 6:Slightly late :Very late 9:Extremely late	Days from pollination to harvest
8	Shelf life	e of fruit	5 fruits	Obs.&Meas	r.		ly short 3:Short 5:Intermediate :Extremely long	Days from harvesting to the optimum consumption time of fruit preserved at 25 centidegree. Extremely short: 1-2 days, short: 3-5 days, intermediate: 6-10 days, long: 11-20 days, extremely long: over 21 days

Plant Western melo					444	Tertiary optional character	
No	No Characters		No. of samples	Method	s	Rank or measurement unit	Remarks
1	Flesh firmness		5 fruits	Sensory	4:5	xtremely soft 2:Very soft 3:Soft lightly soft 5:Intermediate 6:Slightly m 7:Firm 8:Very firm 9:Extremely firm	Evaluate at the optimum consumption time
2	Acidity of fruit		5 fruits			one 1:Extremely weak 2:Very weak 3:Weak lightly weak 5:Intermediate 6:Slightly ong 7:Strong 8:Very strong 9:Extremely ong	Mature fruit
3	Bitterness of fruit		5 fruits	Sensory	4:S	one 1:Extremely weak 2:Very weak 3:Weak lightly weak 5:Intermediate 6:Slightly ong 7:Strong 8:Very strong 9:Extremely ong	Mature fruit
4	Intensity color of f	_	5 fruits	Observation	4:S	xtremely light 2:Very light 3:Light lightly light 5:Medium 6:Slightly dark ark 8:Very dark 9:Extremely dark	Mature fruit. Only varieties with orange color of flesh.
5	Secondary salmon coloring of flesh		5 fruits	Observatio	4:5	one 1:Extremely weak 2:Very weak 3:Weak lightly weak 5:Intermediate 6:Slightly ong 7:Strong 8:Very strong 9:Extremely ong	Mature fruit. Only varieties with white color of flesh.
6	Quantity of fibers in 5 :		5 fruits	Sensory	4:5	one 1:Extremely low 2:Very low 3:Low lightly low 5:Intermediate 6:Slightly high High 8:Very high 9:Extremely high	Mature fruit
7	Tendency o	f fruit to	5 fruits	Obs.&Meas	4:Si	xtremely easy 2:Very easy 3:Easy lightly easy 5:Intermediate 6:Slightly ficult 7:Difficult 8:Very difficult xtremely difficult	Preserve at 25 degrees C