Technical Working Party for Vegetables

Fifty-Seventh Session Antalya, Türkiye, May 1 to 5, 2023 TWV/57/23

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PARTIAL REVISION OF THE TEST GUIDELINES FOR VEGETABLE MARROW, SQUASH

Document prepared by an expert from France

Disclaimer: this document does not represent UPOV policies or guidance

- The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Vegetable Marrow, Squash (document TG/119/4 Corr. 2).
- The Technical Working Party for Vegetables (TWV), at its fifty-sixth session organized by electronic means, from April 18 to 22, 2022, agreed that the Test Guidelines for Vegetable Marrow, Squash (document TG/119/4 Corr. 2) be partially revised (see document TWV/56/22 "Report", Annex II).
- 3. The following changes are proposed:
 - Addition of new Characteristic 82 "Resistance to Zucchini yellow mosaic virus (ZYMV)" at the end (a) of the Table of Characteristics
 - (b) Addition of an explanation Ad. 82 "Resistance to Zucchini yellow mosaic virus (ZYMV)" in Chapter 8.2 "Explanations for individual characteristics"
 - (c) Addition of new Characteristic 83 "Resistance to Watermelon mosaic virus (WMV)" at the end of the Table of Characteristics
 - Addition of an explanation Ad. 83 "Resistance to Watermelon mosaic virus (WMV)" in Chapter 8.2 (d) "Explanations for individual characteristics"
 - Inclusion of characteristics from the Table of Characteristics in the Technical Questionnaire (see (e) documents TWV/56/22 "Report", paragraphs 102 and 103, and TWP/7/6 "Revision of Test Guidelines")

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Proposal to add new Characteristic 82 "Resistance to *Zucchini yellow mosaic virus* (ZYMV)" at the end of the Table of Characteristics

	English		français Deutsch es		español		Note/ Nota
82. (+)	vs	Resistance to Zucchini yellow mosaic virus (ZYMV)	Resistance au Zucchini yellow mosaic virus (ZYMV)	i Resistenz gegen Zucchini yellow mosaic virus (ZYMV)	Resistencia a Zucchini yellow mosaic virus (ZYMV)		
QN		absent or low	absente ou faible	gering	baja	Cora	1
		medium	moyenne	mittel	media	Mirza	2
		high	élevée	hoch	alta	Mikonos	3

<u>Proposed addition of an explanation Ad. 82 "Resistance to *Zucchini yellow mosaic virus* (ZYMV)" in <u>Chapter 8.2 "Explanations for individual characteristics"</u></u>

Ad. 82: Resistance to Zucchini yellow mosaic virus (ZYMV)

1.	Pathogen	Zucchini yellow mosaic virus (ZYMV)
2.	Quarantine status	No
3.	Host species	Cucurbita pepo L.
4.	Source of inoculum	GEVES (FR) ¹
5.	Isolate	e.g. strain E9 = MAT/REF/06-08-02-02
6.	Establishment isolate identity	-
7.	Establishment pathogenicity	Symptoms on susceptible squash variety
8.	Multiplication inoculum	
8.1	Multiplication medium	Living plant
8.2	Multiplication variety	e.g. Cora
8.3	Plant stage at inoculation	-
8.4	Inoculation medium	-
8.5	Inoculation method	-
8.6	Harvest of inoculum	-
8.7	Check of harvested inoculum	-
8.8	Shelf life/viability inoculum	-
9.	Format of the test	
9.1	Number of plants per genotype	At least 20
9.2	Number of replicates	At least 2 (e.g. 2x10 plants)
9.3	Control varieties	 To illustrate and define the UPOV states absent to low resistance (=susceptible): Cora medium resistance: Mirza (low threshold of medium resistance level): high resistance: Mikonos (low threshold of high resistance level)
9.4	Test design	add non inoculated plants
9.5	Test facility	Climatic room or greenhouse
9.6	Temperature	e.g. 22°C or 24°C/18°C
9.7	Light	12h-16h
9.8	Season	

¹ matref@geves.fr

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9.9	Special measures	keep glasshouse free of aphids			
10.	Inoculation				
10.1	Preparation inoculum	1 g leaf with symptoms with 4 mL of PBS with carborundum (400 mg) and activated carbon (400 mg) or similar buffer, homogenize			
10.2	Quantification inoculum				
10.3	Plant stage at inoculation	First expanded leaf			
10.4	Inoculation method	Rubbing cotyledons with virus suspension			
10.5	First observation	Optional: repeat the inoculation after 3 days 14 days post-inoculation			
10.6	Second observation	-			
10.7	Final observations	21 days post-inoculation			
11.	Observations				
11.1	Method	Visual observation			
11.2	Observation scale	Class 0: no symptom Class 1: few small chlorotic patches Class 2: many chlorotic patches Class 3: large chlorotic areas (some patches on young leaves) Class 4: mosaic and weak vein banding Class 5: deformation and vein banding			









0: no symptom

1: few small chlorotic patches.

2: many chlorotic patches



3: large chlorotic areas (some patches on young leaves)

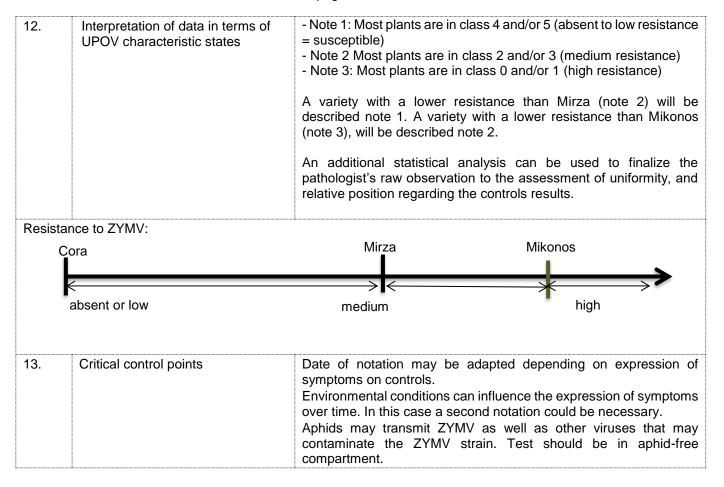


4: mosaic and weak vein banding



5: deformation and vein banding

		Courtesy of GEVES-SNES
11.3 Validation of test		The high resistance control (Mikonos), the medium resistance control (Mirza) and the absent to low resistance (=susceptible) control (Cora) are necessary to validate the aggressiveness of test.
		Results should be compared with results of controls, based on disease index (DI) and distribution of plants over the classes.
11.4	Off-types	-



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<u>Proposed addition of new Characteristic 83 "Resistance to Watermelon mosaic virus (WMV)" at the end of the Table of Characteristics</u>

	English	français Deutsch e		español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
83. (+)	VS Resistance to Watermelon mosaic virus (WMV)	Resistance au Watermelon mosaic virus (WMV)	Resistenz gegen Watermelon mosaic virus (WMV)	Resistencia a Watermelon mosaic virus (WMV)		
QN	absent	absente	fehlend	ausente	Cora	1
	present	présente	vorhanden	presente	Mikonos, Sofia, Syros	9

<u>Proposed addition of an explanation Ad. 83 "Resistance to Watermelon mosaic virus (WMV)" in Chapter 8.2 "Explanations for individual characteristics"</u>

Ad. 83: Resistance to Watermelon mosaic virus (WMV)

1.	Pathogen	Watermelon mosaic virus (WMV)
2.	Quarantine status	No
3.	Host species	Cucurbita pepo L.
4.	Source of inoculum	GEVES (FR) ²
5.	Isolate	e.g., strain LL1A = MAT/REF/06-09-01 ²
6.	Establishment isolate identity	-
7.	Establishment pathogenicity	Symptoms on susceptible squash variety
8.	Multiplication inoculum	
8.1	Multiplication medium	Living plant
8.2	Multiplication variety	e.g. Cora
8.3	Plant stage at inoculation	-
8.4	Inoculation medium	-
8.5	Inoculation method	-
8.6	Harvest of inoculum	-
8.7	Check of harvested inoculum	-
8.8	Shelf life/viability inoculum	-
9.	Format of the test	
9.1	Number of plants per genotype	At least 20
9.2	Number of replicates	At least 2 (e.g. 2 x 10 plants)
9.3	Control varieties	To illustrate UPOV notes:
		 resistance absent: Cora resistance present: Sofia (minimum resistance level) Mikonos, Syros have higher resistance than Sofia, but not resistant enough to illustrate a high resistance.
9.4	Test design	add non inoculated plants
9.5	Test facility	Climatic room or greenhouse
9.6	Temperature	e.g., 22°C or 24°C/18°C
9.7	Light	12h-16h
9.8	Season	
9.9	Special measures	Keep glasshouse free of aphids
10.	Inoculation	

² matref@geves.fr

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10.1	Preparation inoculum	1 g leaf with symptoms with 4mL of PBS with carborundum (400mg) and activated carbon (400mg) or similar buffer, homogenize
10.2	Quantification inoculum	-
10.3	Plant stage at inoculation	First expanded leave
10.4	Inoculation method	Rubbing cotyledons with virus suspension
		Optional: repeat the inoculation after 3 days
10.5	First observation	14 days post-inoculation
10.6	Second observation	-
10.7	Final observations	21 days post-inoculation
11.	Observations	
11.1	Method	Visual observation
11.2	Observation scale	Class 0: no symptom Class 1: few small chlorotic patches Class 2: many chlorotic patches Class 3: large chlorotic areas (some patches on young leaves) Class 4: mosaic, weak vein banding Class 5: deformation and vein banding



0: no symptom



1: few small chlorotic patches



2: many chlorotic patches



3: large chlorotic areas (some patches on young leaves)



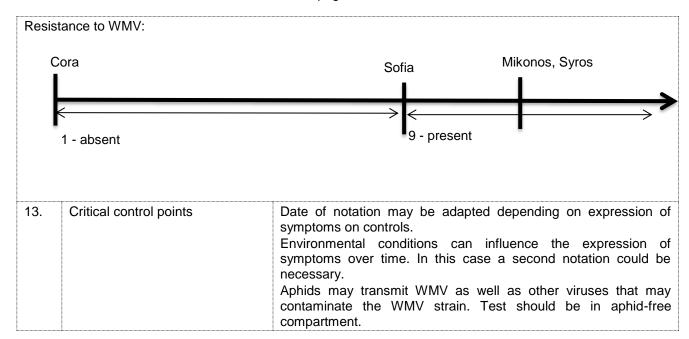
4: mosaic, weak vein banding



5: deformation and vein banding

Courtesy of GEVES-SNES

11.3	Validation of test	On three controls: Sofia, Mikonos or Syros, and Cora The presence of Syros or Mikonos (and not only Sofia) is necessary to validate the aggressiveness of the test. Results should be compared with the results of controls, based on disease index (DI) and distribution of plants over the classes.
11.4	Off-types	-
12.	Interpretation of data in terms of UPOV characteristic states	Note 1: Most plants are in class 4 and/or 5 (resistance absent or low to be considered) Note 9: Most plants are in class 0, 1, 2 and/or 3 (resistance present -more or less intensely)
		A variety with a lower level of resistance than Sofia (note 9), will be described as note 1
		An additional statistical analysis can be used to finalize the pathologist's raw observation to the assessment of uniformity, and relative position regarding the controls results.



Inclusion of characteristics from the Table of Characteristics in the Technical Questionnaire (see documents TWV/56/22 "Report", paragraphs 102 and 103, and TWP/7/6 "Revision of Test Guidelines")

4. The TWV is invited to consider the inclusion of the following characteristics in the TQ (characteristics for inclusion indicated in highlight and underline):

Char. No.	(*)	Characteristic Name	
		Types of edible varieties: Fruit: type	
4	(*)	Plant: growth habit	
5	(*)	Plant: branching	
8	(*)	Stem: color	
9		Stem: intensity of green color	
13	(*)	Leaf blade: incisions	
15	(*)	Leaf blade: silvery patches	
16		Leaf blade: relative area covered by silvery patches	
17		Petiole: length	
26		Only Zucchini and Rounded Zucchini type varieties: Young fruit: general shape	Option "not applicable" added
27	(*)	Young fruit: main color of skin (excluding color of ribs or grooves)	
29		Only varieties with green color of skin: Young fruit: intensity of green color of skin (as for 27)	Option "not applicable" added
30	(*)	Fruit: general shape	
31.1	(*)	Only Scallop type varieties: Fruit: length	Option "not applicable" added
31.2	(*)	Only Acorn type varieties: Fruit: length	Option "not applicable" added
31.3	(*)	Only Neck type varieties: Fruit: length	Option "not applicable" added
31.4	(*)	Only Zucchini type varieties: Fruit: length	Option "not applicable" added
32.1		Only Scallop type varieties: Fruit: maximum diameter	Option "not applicable" added
32.2		Only Acorn type varieties: Fruit: maximum diameter	Option "not applicable" added
32.3		Only Zucchini type varieties: Fruit: maximum diameter	Option "not applicable" added
34.1	(*)	Only Pumpkin type varieties: Fruit: size	Option "not applicable" added
34.2	(*)	Only Rondini type varieties: Fruit: size	Option "not applicable" added
46	(*)	Fruit: grooves	
50	(*)	Fruit: main color of skin (excluding color of dots, patches, stripes and bands)	
51		Only varieties with yellow color of skin: Fruit: intensity of yellow color of skin (as for 50)	Option "not applicable" added
52		Only varieties with green color of skin: Fruit: intensity of green color of skin (as for 50)	Option "not applicable" added
54		Fruit: stripes in grooves	
57		Fruit: dots	
59		Fruit: secondary green color between ribs (excluding dots)	
61		Fruit: distribution of secondary green color between ribs	
69	(*)	Ripe fruit: main color of skin (excluding color of mottles, patches, stripes and bands)	
71	(*)	Ripe fruit: secondary color of skin (as for 69)	
74	(*)	Ripe fruit: color of flesh	
<u>82</u>		Resistance to Zucchini yellow mosaic virus (ZYMV)	Proposed addition based on current partial revision
<u>83</u>		Resistance to Watermelon mosaic virus (WMV)	Proposed addition based on current partial revision

TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number:

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the Test Guidelines; please mark the state of expression which best corresponds).

	Characteristics	Example Varieties	Note
5.1	Types of edible varieties: Fruit: type		
	Pumpkin	Halloween, Little Boo, Small Sugar	1[]
	Miniature Pumpkin	Jack Be Little	2[]
	Scallop	Patty Pan, Scallopini	
	Acorn	Table Queen	4[]
	Neck	Early Prolific Straightneck, Yellow Summer Crookneck	5[]
	Zucchini	Ambassador, Beiruti, Clarita, Elite, Ibis, Romano	6[]
	Rounded Zucchini	De Nice à fruit rond, Redondo	7[]
	Delicata	Delicata	8[]
	Spaghetti Squash	Pasta, Vegetable Spaghetti	9[]
	Rondini	Little Gem	10[]
	Ölkürbis	Markant	11[]
	Other		12[]
5.2 (4)	Plant: growth habit		
	bush	Greyzini	1[]
	semi-trailing	Cinderella, Everest, Twickers	2[]
	trailing	Becky, Long Green Trailing	3[]
5.3 (5)	Plant: branching		
	absent	Goldi	1[]
	present	Patty Green Tint	9[]

TECHNICAL QUESTIONNAIRE		Page {x} of {y}		Reference Number:	
	Characteristics		Example Varieties		Note
<u>5.4</u> (8)	Stem: color				
	completely green		Ве	ecky	1[_]
	partly green and partly yellow		Αι	utumn Gold	2[]
<u>5.5</u> (9)	Stem: intensity of green color				
	very light		M	<u>aayan</u>	<u>1[]</u>
	very light to light				2[_]
	light		Bi	<u>anchini</u>	3[]
	light to medium				4[]
	<u>medium</u>		Ci	<u>nderella</u>	5[]
	medium to dark				6[]
	<u>dark</u>		Gı	<u>reyzini</u>	7[_]
	dark to very dark				8[]
	very dark		G	<u>oldrush</u>	9[]
<u>5.6</u> (13)	Leaf blade: incisions				
	absent or very shallow		Sc	callopini	1[]
	very shallow to shallow				2[_]
	shallow		E١	verest	3[_]
	shallow to medium				4[]
	medium		Ja	ackpot	<u>5[]</u>
	medium to deep				<u>6[]</u>
	deep		Ci	vac	7[_]
	deep to very deep				8[]
	very deep		Is	<u>otta</u>	<u>9[]</u>
5.4 <u>7</u> (15)	Leaf blade: silvery patches				
	absent		ВІ	ack Forest, Scallopini	1[]
	present		Ci	vac	9[]

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:	
	Characteristics	Example Varieties	Note	
<u>5.8</u> (16)	Leaf blade: relative area covered by sil	very patches		
	very small		Albo	1[]
	very small to small		2[]	
	small	<u>Aziz</u>	3[]	
	small to medium			4[]
	<u>medium</u>		Ambassador	5[]
	medium to large			<u>6[]</u>
	large		Cora	7[]
	large to very large			8[]
	very large		Summerstar	9[]
<u>5.9</u> (17)	Petiole: length			
	very short			1[]
	very short to short			2[]
	short		Jack be Little, Karioka	3[]
	short to medium			4[]
	<u>medium</u>		Goldi	5[]
	medium to long			6[]
	long		Autumn Gold, Baikal	7[]
	long to very long			8[]
	very long			9[]
<u>5.10</u> (26)	Only Zucchini and Rounded Zucchini t general shape	ype varieties: Young fruit:		
	globular		De Nice à Fruit Rond	1[]
	pear shaped		Clarita	2[]
	tapered elliptical		Top Kapi	3[]
	elliptical		Table Dainty	4[]
	cylindrical		Ambassador, Ibis	<u>5[]</u>
	tapered cylindrical			6[]
	not applicable			

TECHNICAL QUESTIONNAIRE		Page {x} of {y}		Reference Number:	
	Characteristics			Example Varieties N	
<u>5.11</u> (27)	Young fruit: main color of skin (excluding color of ribs or grooves)				
1=	<u>white</u>			White Bush Scallop	
	cream		Ti	<u>voli</u>	<u>2[]</u>
	vellow		G	<u>oldi</u>	3[_]
	green		El	ite, Opal, Romano	4[_]
	partly white and partly yellow				5[]
	partly white and partly green				<u>6[]</u>
	partly yellow and partly green		Sı	unburst, Zephyr	7[_]
<u>5.12</u> (12)	Only varieties with green color of skin: green color of skin (as for 27)	Young fruit: intensity of			
	very light		CI	arita, Goya, Patty Green Tint	1[]
	very light to light				2[]
	light		Αı	<u>lika</u>	3[]
	light to very light				4[_]
	medium		Baccara		5[]
	medium to dark dark				<u>6[]</u>
			ıΑ	lesa, Sandra, Zefira	7[_]
	dark to very dark				8[_]8
	very dark		Ca	arnaval, Corsair	9[]
	not applicable				
<u>5.13</u> (30)	Fruit: general shape				
	disc shaped				1[_]
	transverse elliptical				2[_]
	transverse broad elliptical				3[_]
	globular				4[]
	top shaped				<u>5[]</u>
	broad elliptical				<u>6[]</u>
	<u>ovate</u>				7[_]
	elliptical				<u>8[]</u>
	cylindrical				9[]
	pear shaped				10[]
	bottle shaped				11[_]
	club shaped				12[]

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:		
	Characteristics	Example Varieties	Note		
<u>5.14</u> (31.1)	Only Scallop type varieties: Fruit: length				
(01.17	very short			1[]	
	very short to short			2[]	
	short	<u> </u>	Bennings Green Tint	3[_]	
	short to medium			4[]	
	<u>medium</u>	<u> </u>	Sunburst	5[]	
	medium to long			6[]	
	long	1	Yellow Bush Scallop	7[_]	
	long to very long			[]8	
	very long			9[]	
	not applicable				
<u>5.15</u> (31.2)	Only Acorn type varieties: Fruit: length	I			
,	very short			1[]	
	very short to short			<u> </u>	
	short	1	Table Gold	3[_]	
	short to medium			4[]	
	medium	<u> </u>	Swan White Acorn	5[]	
	medium to long			6[]	
	long	<u> </u>	Ebony Table Queen	7[_]	
	long to very long			8[]	
	very long			9[]	
	not applicable				
<u>5.16</u> (31.3)	Only Neck type varieties: Fruit: length				
	very short			1[]	
	very short to short			2[]	
	short	7	<u> Wryneck</u>	3[]	
	short to medium			4[]	
	medium	Ĭ	Yellow Summer Crookneck	5[]	
	medium to long			6[]	
	long	<u> </u>	Sunbar	7[_]	
	long to very long			8[]	
	very long			9[]	
	not applicable				

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:		
	Characteristics		Example Varieties	Note	
<u>5.17</u> (31.4)	Only Zucchini type varieties: Fruit: length				
	very short		<u>Jericho</u>	1[]	
	very short to short			2[]	
	short		<u>Jedida</u>	3[]	
	short to medium			4[]	
	medium		Cora	<u>5[]</u>	
	medium to long			6[]	
	long		Carlotta	7[]	
	long to very long			8[]	
	very long		Altea	9[]	
	not applicable				
<u>5.18</u> (32.1)	Only Scallop type varieties: Fruit: maxi	imum diameter			
	very small			1[_]	
	very small to small			2[]	
	small		<u>Scallopini</u>	3[]	
	small to medium			4[]	
	<u>medium</u>		Yellow Bush Scallop	5[]	
	medium to large			6[]	
	large		White Bush Scallop	7[]	
	large to very large			8[]	
	very large			9[]	
	not applicable				
<u>5.19</u> (32.2)	Only Acorn type varieties: Fruit: maxin	num diameter			
	very small			1[_]	
	very small to small			2[]	
	<u>small</u>		Table Gold	3[]	
	small to medium			4[]	
	medium		Table King	5[]	
	medium to large			6[]	
	large		Swan White Acorn	7[]	
	large to very large			8[]	
	very large			9[]	
	not applicable			Ш	

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Refe	rence Number:		
	Characteristics			Varieties	Note	
<u>5.20</u> (32.3)	Only Zucchini type varieties: Fruit: maximum diameter					
	very small				1[]	
	very small to small				2[_]	
	small		Goldi		3[]	
	small to medium				4[]	
	<u>medium</u>		Opal		5[]	
	medium to large				6[]	
	large		Jericho, S	<u>Spidi</u>	7[]	
	large to very large				8[]	
	very large				9[]	
	not applicable					
<u>5.21</u> (34.1)	Only Pumpkin type varieties: Fruit: size	<u>e</u>				
	very small		Wee-B-L	ittle	1[]	
	very small to small				2[]	
	<u>small</u>		Peek-a-B	300	3[]	
	small to medium				4[]	
	<u>medium</u>		<u>Spirit</u>		5[]	
	medium to large				<u>6[]</u>	
	large		Ghost Ric	der	7[]	
	large to very large				8[]	
	very large		<u>Howden</u>		9[]	
	not applicable					
<u>5.22</u> (34.2)	Only Rondini type varieties: Fruit: size					
	very small				1[]	
	very small to small				2[]	
	<u>small</u>		Pomme o	d'Or	3[]	
	small to medium				4[]	
	medium		Rolet		<u>5[]</u>	
	medium to large				6[]	
	large		Little Ger	<u>n</u>	7[]	
	large to very large				8[]	
	very large				9[]	
	not applicable					

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TECH	INICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
	Characteristics	Example Varieties	Note	
<u>5.23</u> (46)	Fruit: grooves			
	absent			1[]
	present			9[]
5. 5 <u>24</u> (50)	Fruit: main color of skin (excluding col stripes and bands)	or of dots, patches,		
	white		Pâtisson blanc panaché de vert	1[]
	cream		Early White Bush Scallop, Little Boo	2[]
	yellow		Autumn Gold	3[]
	green		Ambassador, Baby Bear	4[]
	partly white and partly yellow			5[]
	partly white and partly green			6[]
	partly yellow and partly green		Sunburst, Zephyr	7[]
5.25 (51)	Only varieties with yellow color of skin color of skin (as for 50)	: Fruit: intensity of yellow		
	very light			1[_]
	very light to light			2[]
	light			3[]
	light to medium			4[]
	medium			5[]
	medium to dark			6[]
	<u>dark</u>			7[_]
	dark to very dark			8[]
	very dark			9[]
	not applicable			

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:		
	Characteristics		Example Varieties		
<u>5.26</u> (52)	Only varieties with yellow color of skin: Fruit: intensity of yellow color of skin (as for 50)				
(02)	very light			1[]	
	very light to light			2[]	
	light			3[]	
	light to medium			4[]	
	<u>medium</u>			5[]	
	medium to dark			6[]	
	<u>dark</u>		Cora	7[]	
	dark to very dark			8[]	
	very dark		Baby Bear, Sardane	9[]	
	not applicable				
<u>5.27</u> (54)	Fruit: stripes in grooves				
	absent		Baby Bear, Jack Be Little	1[]	
	present		<u>Delicata, Heart of Gold.</u> <u>Pâtisson jaune panaché de vert</u>	9[]	
<u>5.28</u> (57)	Fruit: dots				
	absent		Sunburst	1[]	
	present		Gold Rush, Table Queen	9[]	
5.29 (59)	Fruit: secondary green color between i	ribs (excluding dots)			
	absent		Grey Zucchini, Small Sugar	1[]	
	present		Beatrice, Greyzini, Heart of Gold, Steierischer Ölkürbis, Tonda Padana, Zubi	9[]	
5.30 (61)	Fruit: distribution of secondary green of	color between ribs			
	sparse patches		Greyzini, Elite	1[]	
	dense patches		Steierischer Ölkürbis	2[]	
	one colored stripes		Altea	3[]	
	two colored stripes			4[]	
	one colored bands covering the whole sur	rface	Badger Cross, Twickers, Zubi	5[]	
	two colored bands covering the whole sur	<u>face</u>	Beatrice	6[]	

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TECH	INICAL QUESTIONNAIRE	Page {x} of {y}	Reference Nur	nber:	
	Characteristics		Example Varieties		Note
<u>5.31</u> (69)	Ripe fruit: main color of skin (excluding color of mottles, patches, stripes and bands)				
	<u>white</u>		Pâtisson blanc panac	hé de vert	1[_]
	whitish		White Bush Scallop		2[_]
	cream		Bianchini, Opal		3[]
	<u>vellow</u>		Gold Rush		4[]
	orange		Autumn Gold		5[]
<u>5.32</u> (71)	Ripe fruit: secondary color of skin (as	for 69)			
	whitish				1[_]
	cream				2[]
	yellow				3[]
	<u>orange</u>				4[]
	green				5[]
<u>5.33</u> (74)	Ripe fruit: color of flesh				
	cream		Elite		1[]
	yellow		Sunburst, Vegetable	<u>Spaghetti</u>	2[]
	orange		Autumn Gold		3[]
5.34 (82)	Resistance to Zucchini yellow mosaic	virus (ZYMV)			
	absent or low		Cora		1[_]
	<u>medium</u>		<u>Mirza</u>		2[]
	<u>high</u>		Mikonos		3[]
	not tested				
<u>5.35</u> (83)	Resistance to Watermelon mosaic viru	us (WMV)			
	absent				1[]
	present				9[]
	not tested				