



**TWV/34/12**

**ORIGINAL:** English

**DATE:** August 17, 2000

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**TECHNICAL WORKING PARTY FOR VEGETABLES**

**Thirty-Fourth Session**  
**Angers, France, September 11 to 15, 2000**

WORKING PAPER ON TEST GUIDELINES  
FOR VEGETABLE MARROW, SQUASH

*Document prepared by experts from the Netherlands*

**[Only proposed changes from chapter I to V of TG/119/3 are included and are printed in bold]**

#### I. Subject of these Guidelines

These Test Guidelines apply to all varieties of Cucurbita pepo L. which include Vegetable Marrow, Pumpkin and Squash covered by that species.

**Proposed: These Test Guidelines apply to all edible varieties of Cucurbita pepo L.**

#### II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the seed required for testing the variety is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must make sure that all customs formalities are complied with. As a minimum, for each year of test the following quantity of seed is recommended:

100 g. **Proposed: 200 g.**

#### III. Conduct of Tests

3. The tests should be carried out under conditions ensuring normal growth. The size of the plots should be such that plants or parts of plants may be removed for measurement and counting without prejudice to the observations which must be made up to the end of the growing period. As a minimum, each test should include a total of 20 plants which should be divided between two or more replicates. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

#### IV. Methods and Observations

1. All observations determined by measurement or counting should be made on 10 plants or parts of 10 plants.

**Proposed: All observations on the seedling should be made just before the development of the first leaf.**

**Proposed: All observations on the plant and stem should be made when the first fruit is fully grown or later.**

2. All observations on the leaf should be made on fully developed leaves when the fruit starts developing and should exclude the lower external leaves.

3. All observations on the ring of the corolla should be made when female and male flowers have appeared.

4. Unless otherwise indicated, all observations on the young fruit should be made on fruits five days after flowering. **Proposed: replace:** All observations on the mature fruit should be made when the fruit is ready for harvesting **by: All observations on the fruit should be made when the fruit is fully grown, before the change of color due to ripening.** All observations on the ripe fruit should be made on physiological ripe fruits. **Proposed: delete: -** If for climatic reasons this is not possible all observations on the fruit should be made on

fruits fully developed in size. The variety description should always indicate on which fruits the characteristics have been observed.

**Proposed: The start of ripening of the fruit should be observed when the first normally set and fully grown fruit starts to change color due to ripening.**

V. Grouping of Varieties

1. The collection to be grown should be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety and which in their various states are fairly evenly distributed within the collection.

2. It is recommended that the competent authorities use the following characteristics for grouping varieties:

(i) Plant: growth habit (characteristic 2)

(ii) Plant: branching (characteristic 3)

**Proposed: del** (iii) Leaf blade: marbling (characteristic 11)

**Proposed: del** (iv) Young fruit: major color (characteristic 37)

**Proposed: del** (v) Young fruit: mottling (characteristic 44)

**Proposed: del** (vi) Fruit: general shape (characteristic 55)

**Proposed new: Leaf blade: silver patches**

**Fruit: type**

**Fruit: dots**

**Fruit: green patches between ribs**

**Fruit: main color (excluding dots and green patches)**

**Ripe fruit: main color (excluding dots and patches)**

VI. Characteristics and Symbols

1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the three UPOV working languages in the Table of Characteristics should be used.

2. Notes (numbers), for the purposes of electronic data processing, are given opposite the states of the different characteristics.

3. Legend:

(\*) Characteristics that should be used every growing period for the examinations of all varieties and should always be included in the description of the variety, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.

(+) See Explanations on the Table of Characteristics in Chapter VIII.

VII. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1. del Plant: shape of cotyledon</b>					
Elliptic					1
Broad elliptic					2
Obovate					3
<b>1. new Seedling: shape of cotyledon</b>					
Narrow elliptic				Bianchini	1
Elliptic				Cora, Tivoli	2
Broad elliptic				Goldi, Cinderella	3
Circular				Yellow Crookneck	4
Obovate				Jericho	5
<b>New Seedling: intensity of green color of cotyledon</b>					
Very light				Sunburst	1
Light				Bianchini	3
Medium				Cora	5
Dark				Lidia	7
Very dark				Saray	9
<b>New Seedling: profile of cotyledon</b>					
Concave					3
Flat				Jericho, Sunburst	5
Convex				Bianchini, Yellow Crookneck	7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>2. del Plant: growth habit</b>					
Bush					1
Semi-trailing					2
Trailing					3
<b>2. new Plant: growth habit</b>					
Bush				Greyzini	1
Semi-trailing				Twickers, Cinderella, Everest	2
Trailing				Long Green Trailing, Becky	3
<b>3. del Plant: branching</b>					
Absent					1
Present					9
<b>3.new Plant: branching</b>					
Absent				Goldi	1
Present				Patty Green Tint	9
<b>4. del Plant: degree of branching</b>					
Weak					3
Medium					5
Strong					7
<b>4. new Plant: degree of branching</b>					
Very weak					1
Weak					3
Medium				Gold Rush	5
Strong				Yellow Crookneck	7
Very strong				Patty Green Tint, Sweet Dumpling	9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>New</b>	<b>Stem: length of internodes</b>				
	Very short			Redondo, Cora	1
	Short			Everest	3
	Medium			Harvest Moon	5
	Long			Becky	7
	Very long			Howden	9
<b>New</b>	<b>Semi- and trailing varieties only: Stem: diameter</b>				
	Small			Becky	3
	Medium				5
	Large			Harvest Moon	7
<b>5. del</b>	<b>Bush varieties only: Plant: attitude of petiole (excluding lower external leaves)</b>				
	Erect				3
	Semi-erect				5
	Postrate				7
<b>5. new</b>	<b>Bush varieties only: Plant: attitude of petiole (excluding lower external leaves)</b>				
	Erect			Belor	1
	Erect to semi-erect			Sardane	2
	Semi-erect			Arlesa	3
	Semi-erect to horizontal			Goldi	4
	Horizontal			Emeraude	5

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>6. Stem: green color del</b>					
Light alone					1
Dark alone					2
Light and dark					3
<b>New Stem: mottling</b>					
Absent					1
Present					9
<b>New Stem: color</b>					
Green				Becky	1
Green and yellow				Autumn Gold	2
<b>New Stem: intensity of green color</b>					
Light					3
Medium					5
Dark					7
<b>7. del Stem: tendrils</b>					
Absent or very rudimentary					1
Well developed					2
<b>7. Stem: tendrils new</b>					
Absent or very rudimentary				Sylvana	1
Well developed				Baby Bear, Greyzini	2
<b>8. del Leaf blade: size</b>					
Small					3
Medium					5
Large					7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>8. Leaf blade: size</b>					
<b>new</b>					
Very small				Becky	1
Small				Small Sugar	3
Medium				Ambassador	5
Large				Kriti	7
Very large					9
<b>9. Leaf blade: incisions</b>					
<b>del</b>					
Absent or very weak					1
Weak					3
Medium					5
Strong					7
Very strong					9
<b>9. Leaf blade: depth of incisions</b>					
<b>new</b>					
Absent or very shallow				Scallopini	1
Shallow				Everest	3
Medium				Jackpot	5
Deep				Civac	7
Very deep				Isotta	9
<b>New Leaf blade: dentation of margin</b>					
<b>del</b>					
Absent or very weak					1
Weak					3
Medium					5
Strong					7
Very strong					9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>10. del</b>	<b>Leaf blade: green color of upper surface</b>				
	Light				3
	Medium				5
	Dark				7
<b>10. new</b>	<b>Leaf blade: intensity of green color of upper surface</b>				
	Light				3
	Medium				5
	Dark				7
<b>11. del</b>	<b>Leaf blade: marbling</b>				
	Absent				1
	Present				9
<b>11. new</b>	<b>Leaf blade: silver patches</b>				
	Absent			Scallopini, Black Forest	1
	Present			Civac	9
<b>12. del</b>	<b>Leaf blade: area covered by marbling</b>				
	Very small				1
	Small				3
	Medium				5
	Large				7
	Very large				9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>New</b>	<b>Leaf blade: number of silver patches</b>				
	Very few			Albo	1
	Few			Aziz	3
	Medium			Ambassador	5
	Many			Civac	7
	Very many			Summerstar	9
<b>New</b>	<b>Leaf blade: intensity of silver patches</b>				
	Very weak			Everest, Cinderella	1
	Weak			Top Kapi, Defender	3
	Medium			Ambassador	5
	Strong			Ritma	7
	Very strong			Bianchini	9
<b>New</b>	<b>Leaf blade: size of silver patches</b>				
	Small			Gold Rush, Ritma	3
	Medium			Emeraude	5
	Large			Cora	7
<b>13. del</b>	<b>Petiole: green color</b>				
	Light				3
	Medium				5
	Dark				7
<b>14. del</b>	<b>Petiole: length</b>				
	Short				3
	Medium				5
	Long				7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>14. Petiole: length</b>					
<b>new</b>					
Short				Jack be Little	3
Medium				Goldi	5
Long				Autumn Gold	7
<b>15. Petiole: thickness</b>					
<b>del (at base)</b>					
Thin					3
Medium					3
Thick					7
<b>16. Petiole: shape of</b>					
<b>del? cross section</b>					
Round					1
Angular					2
<b>17. Petiole: number of</b>					
<b>del prickles</b>					
Few					3
Medium					5
Many					7
<b>17. Petiole: number of</b>					
<b>new prickles</b>					
Absent or very few				Kojac	1
Few				Opaline	3
Medium					5
Many					7
Very many				Yellow Crookneck	9
<b>18. Female flower:</b>					
<b>ring at inner side</b>					
<b>of corolla</b>					
Absent				Greyzini	1
Present				Aurore	9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>19. Female flower: color of ring at inner side of corolla</b>					
Green				Aurore, President	1
Yellow				Diamant, Patro	2
Green and yellow				Pueblo	3
<b>20. Female flower: intensity of color of green ring at inner side of corolla</b>					
Weak				Maya, Sardane	3
Medium				Samba, Senator	5
Strong				Aristocrat, Diamant	7
<b>21. Female flower: del length of sepal</b>					
Short					3
Medium					5
Long					7
<b>22. Female flower: del color of pistil (before opening)</b>					
Yellow					1
Orange					2
<b>New Male flower: ring at inner side of corolla</b>					
Absent				Bianchini	1
Present				Goldi	9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>24. del</b>	<b>Male flower: color of ring at inner side of corolla base</b>				
	Green				1
	Yellow				2
	Green and yellow				3
<b>24. new</b>	<b>Male flower: color of ring at inner side of corolla</b>				
	Green			Goldi	1
	Yellow			Patro, Zyzo	2
	Green and yellow			Green Gem, Ibis	3
<b>23. del</b>	<b>Male flower: expression of colored ring at inner side of corolla</b>				
	Absent or very weak				1
	Weak				3
	Medium				5
	Strong				7
	Very strong				9
<b>23. new</b>	<b>Male flower: intensity of green color of ring at inner side of corolla</b>				
	Weak			Cora	3
	Medium			Verdi	5
	Strong			Goldi	7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>25. del</b>	<b>Male flower: length of pedicel</b>				
	Short				3
	Medium				5
	Long				7
<b>New del</b>	<b>Male flower: location</b>				
	In foliage			Tivoli	1
	In and above foliage			Jack 'o Lantern	2
<b>26. del</b>	<b>Male flower: diameter of pedicel</b>				
	Small				3
	Medium				5
	Large				7
<b>27. del</b>	<b>Male flower: color of pedicel</b>				
	Light green				3
	Medium green				5
	Dark green				7
<b>28. del</b>	<b>Male flower: grooving of pedicel</b>				
	Weak				3
	Medium				5
	Strong				7
<b>29. del</b>	<b>Male flower: hairiness of pedicel</b>				
	Weak				3
	Medium				5
	Strong				7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>30. Male flower: del length of sepal</b>					
Short					3
Medium					5
Long					7
<b>New Fruit: type</b>					
Pumpkin				Halloween, Small Sugar	1
Scallop				Patty Pan, Scallopini	2
Acorn				Table Queen	3
Crookneck				Yellow Summer Crookneck	4
Straightneck				Early Prolific Straightneck	5
Vegetable Marrow				Beirut, Clarita	6
Cocozelle				Romano, Ibis	7
Zucchini				Elite, Ambassador	8
De Nice á fruit rond				De Nice á fruit rond, Redondo	9
Delicata				Delicata, Sweet Dumpling	10
Spaghetti Squash				Vegetable Spaghetti, Pasta	11
Ölkürbis				Markant	12
Miniature Pumpkin				Jack be Little	13
Other					14
<b>31. Young fruit: length del</b>					
Short					3
Medium					5
Long					7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>32. del</b>	<b>Young fruit: maximum diameter</b>				
	Small				3
	Medium				5
	Large				7
<b>33. del</b>	<b>Young fruit: ratio length/maximum diameter</b>				
	Small				3
	Medium				5
	Large				7
<b>33. new</b>	<b>Only Vegetable Marrow, Cocoselle and Zucchini: Young fruit: ratio length/maximum diameter</b>				
	Very small				1
	Small			Opal	3
	Medium				5
	Large			Carlotta	7
	Very large				9
<b>34. del</b>	<b>Young fruit: neck</b>				
	Absent				1
	Present				9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>35. del</b>	<b>Young fruit: curving of neck (on normally set fruits)</b>				
	Absent				1
	Present				9
<b>36. del</b>	<b>Young fruit: number of colors</b>				
	One				1
	Two				2
	Three				3
<b>37. del</b>	<b>Young fruit: major color</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4
	Whitish and yellow				5
	Whitish and green				6
	Green and yellow				7
<b>37. new</b>	<b>Except Pumpkin, Delicata, Spaghetti Squash, Ölkürbis and Miniature Pumpkin: Young fruit: main color</b>				
	Whitish				? 1
	Yellow				Goldi 2
	Orange				? 3
	Green				Opal 4

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>38. del</b>	<b>Young fruit: intensity of main color</b>					
	Light					3
	Medium					5
	Dark					7
<b>38. new</b>	<b>Except Pumpkin, Delicata, Spaghetti Squash, Ölkürbis and Miniature Pumpkin: Young fruit: intensity of main color</b>					
	Very light				Opal	1
	Light				Arlika	3
	Medium					5
	Dark				Arlesa	7
	Very Dark				Scallopini, Black Jack, Sardane	9
<b>39. del</b>	<b>Young fruit: shape of cross section</b>					
	Round					1
	Ribbed					2
	Angular					3
	Lobed					4
<b>new</b>	<b>Vegetable Marrow, Cocozelle, Zucchini and Spaghetti squash only: Fruit: protrusion of ribs</b>					
	Absent or very weak					1
	Weak				Pasta	3
	Medium				Opal, Ibis	5
	Strong					7
	Very strong					9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>New</b>	<b>Pumpkin, Acorn, Delicata and Miniature Pumpkin only: Fruit: depth of grooves</b>				
	Absent or very shallow				1
	Shallow				3
	Medium				5
	Deep				7
	Very deep			Sweet Dumpling	9
<b>40. del</b>	<b>Young fruit: warts</b>				
	Absent				1
	Present				9
<b>40. new</b>	<b>Fruit: warts</b>				
	Absent				1
	Present			Scallopini,	9
<b>41. del</b>	<b>Young fruit: glossiness</b>				
	Weak				3
	Medium				5
	Strong				7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>42. del</b>	<b>Young fruit: color of ribs compared to color of rest of fruit</b>				
	Same				1
	Different				2
<b>43. del</b>	<b>Young fruit: color of linear bands on ribs</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4
<b>44. del</b>	<b>Young fruit: mottling</b>				
	Absent				1
	Present				9
<b>new</b>	<b>Fruit: dots</b>				
	Absent				1
	Present				9
<b>new</b>	<b>Fruit: size of dots</b>				
	Very small			Badger Cross	1
	Small			Ambassador	3
	Medium			Grey Zucchini	5
	Large			Kingsize	7
	Very large			Becky	9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>new</b>	<b>Fruit: green patches between ribs</b>				
	Absent			Grey Zucchini,	1
	Present			Greyzini, Beatrice, Zubi	9
<b>new</b>	<b>Fruit: pattern of green patches between ribs</b>				
	Single patches			Greyzini	1
	One colored stripes				2
	Two colored stripes				3
	One colored bands covering the whole surface			Badger Cross, Zubi	4
	Two colored bands covering the whole surface			Beatrice, Twickers	5
<b>45. del</b>	<b>Young fruit: type of mottling</b>				
	Only diffuse				1
	Diffuse and in patches				2
	Diffuse and in linear bands				3
	Diffuse, in patches and in linear bands				4
<b>46. del</b>	<b>Young fruit: color of mottling of skin</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>47. del</b>	<b>Young fruit: conspicuousness of mottling of skin</b>				
	Weak				3
	Medium				5
	Strong				7
<b>48. del</b>	<b>Fruit: size of flower scar</b>				
	Small				3
	Medium				5
	Large				7
<b>48. new</b>	<b>Fruit: size of flower scar</b>				
	Very small				1
	Small				3
	Medium				5
	Large				7
	Very large			Howden	9
<b>49. del</b>	<b>Young fruit: protrusion of flower scar</b>				
	Absent				1
	Present				9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>50. del</b>	<b>Young fruit: length of peduncle</b>				
	Short				3
	Medium				5
	Long				7
<b>50. new</b>	<b>Fruit: length of peduncle</b>				
	Very short				1
	Short				3
	Medium				5
	Long				7
	Very Long			Western Sunrise	9
<b>51. del</b>	<b>Young fruit: main color of peduncle</b>				
	Only green				1
	Only yellow				2
	Green and yellow				3
<b>51. new</b>	<b>Fruit: color of peduncle</b>				
	Green			Ambassador	1
	Yellow				2
	Green and yellow			Autumn Gold	3
<b>52. del</b>	<b>Young fruit: intensity of main color of peduncle</b>				
	Light				3
	Medium				5
	Dark				7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>52. new</b>					
<b>Fruit: intensity of green color of peduncle</b>					
Light					3
Medium					5
Dark					7
<b>53. del</b>					
<b>Young fruit: mottling of peduncle</b>					
Absent					1
Present					9
<b>53. new</b>					
<b>Fruit: mottling of peduncle</b>					
Absent					1
Present					9
<b>54. del</b>					
<b>Young fruit: conspicuousness of mottling of peduncle</b>					
Weak					3
Medium					5
Strong					7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>55. del</b>	<b>Fruit: general shape</b>				
	Scallop-shaped				1
	Transverse elliptical				2
	Globular				3
	Top-shaped				4
	Ovoid				5
	Elliptical				6
	Cylindrical				7
	Club-shaped				8
	Pear-shaped				9
	Crook-neck				10
<b>New</b>	<b>Pumpkin, De Nice a fruit rond, Delicata and Ölkürbis only: Fruit: shape</b>				
	Transverse elliptical				3
	Globular				5
	Elliptical				7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>New</b>	<b>Vegetable Marrow, Cocozelle and Zucchini only: Fruit: shape</b>				
	Pear shaped				1
	Elliptical				2
	Cylindrical				3
	Club shaped				5
<b>New</b>	<b>Pumpkin and Ölkürbis only: Fruit: size</b>				
	Very small				1
	Small			Small Sugar	3
	Medium				5
	Large				7
	Very large			Howden	9
<b>56. del</b>	<b>Fruit fully developed in size: major color</b>				
	Whitish				1
	Cream				2
	Yellow				3
	Orange				4
	Green				5
<b>New</b>	<b>Fruit: main color (excluding dots and green patches)</b>				
	Whitish				1
	Cream				2
	Yellow				3
	Orange				4
	Green				5

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>57. del</b>	<b>Ripe fruit: major color</b>				
	Whitish				1
	Cream				2
	Yellow				3
	Orange				4
	Green				5
<b>New</b>	<b>Ripe fruit: main color (excluding dots and patches)</b>				
	Whitish				1
	Cream				2
	Yellow				3
	Orange				4
<b>New</b>	<b>Ripe fruit: intensity of main color:</b>				
	Light				3
	Medium				5
	Dark				7
<b>New</b>	<b>Ripe fruit: color of patches</b>				
	Whitish				1
	Cream				2
	Yellow				3
	Orange				4
	Green				5

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>new</b>	<b>Vegetable Marrow only: Ripe fruit: development of green hue</b>				
Absent				Jedida	1
Present				Amalthee	9
<b>new</b>	<b>Vegetable Marrow only: Ripe fruit: intensity of green hue</b>				
Weak				Eskenderany	3
Medium				Corona	5
Strong				Amalthee	7
<b>58. del</b>	<b>Fruit fully developed in size: intensity of major color</b>				
Light					3
Medium					5
Dark					7
<b>new</b>	<b>Fruit: intensity of main color</b>				
Very light					1
Light					3
Medium					5
Dark					7
Very dark					9
<b>59. del</b>	<b>Ripe fruit: intensity of major color</b>				
Light					3
Medium					5
Dark					7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>60. del</b>	<b>Fruit fully developed in size: color of stripes on ribs</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4
<b>61. del</b>	<b>Ripe fruit: color of stripes on ribs</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4
<b>62. del</b>	<b>Fruit fully developed in size: color of mottling of skin</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4
<b>63. del</b>	<b>Ripe fruit: color of mottling of skin</b>				
	Whitish				1
	Yellow				2
	Orange				3
	Green				4

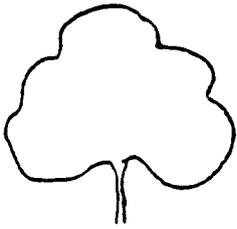
English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>64. Fruit: maximum del length</b>					
Very short					1
Short					3
Medium					5
Long					7
Very long					9
<b>New Vegetable Marrow, Cocozelle and Zucchini only: Fruit: length</b>					
Very short					1
Short					3
Medium					5
Long					7
Very long					9
<b>65. Fruit: maximum del diameter</b>					
Small					3
Medium					5
Large					7
<b>New: Vegetable Marrow, Cocozelle and Zucchini only: Fruit: maximum diameter</b>					
Small					3
Medium					5
Large					7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>66. del</b>	<b>Fruit: ratio length/maximum diameter</b>				
	Very low				1
	Low				3
	Medium				5
	High				7
	Very high				9
<b>66. new</b>	<b>Vegetable Marrow, Cocozelle and Zucchini only: Fruit: ratio length/maximum diameter</b>				
	Very low				1
	Low				3
	Medium				5
	High				7
	Very high				9
<b>67.</b>	<b>Seed: size</b>				
	Small				3
	Medium				5
	Large				7
<b>68.</b>	<b>Seed: shape</b>				
	Narrow elliptic				3
	Elliptic				5
	Broad elliptic				7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>New</b>					
<b>Seed: hull</b>					
Absent					1
Present					9
<b>69. del</b>					
<b>Seed: color</b>					
Whitish					1
Yellowish					2
<b>69. new</b>					
<b>Seed: color of hull</b>					
Whitish					1
Yellowish					2
<b>New</b>					
<b>By type: Plant: start of female flowering</b>					
Very early					1
Early					3
Medium					5
Late					7
Very late					9
<b>New</b>					
<b>By type: Fruit: start of ripening</b>					
Very early					1
Early					3
Medium					5
Late					7
Very late					9

VIII. Explanations on the Table of Characteristics

Ad. 9: Leaf blade:depth of incisions



1

absent or very weak



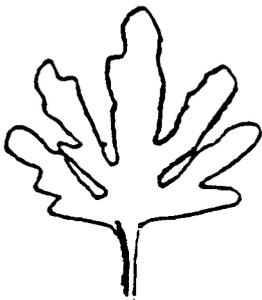
3

weak



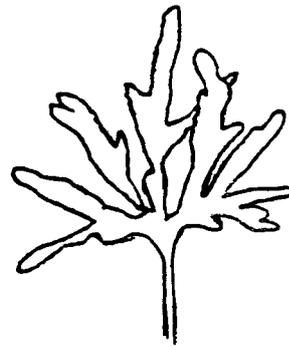
5

medium



7

strong



9

very strong

IX. Literature

- UPOV Test Guideline TG/119/3 , 1988
- Decker, D.S. 1988, Origin(s), Evolution, and Systematics of *Cucurbita pepo* (Cucurbitaceae). *Economic Botany*, 42(1), pp.4-15.
- Paris, H.S. 1986, A proposed subspecific classification for *Cucurbita pepo* , *Phytologia* 61 (3), pp. 133-138
- Paris, H.S., 1998, Some Observations Concerning Diversity in the Subspecies and Horticultural Groups of *Cucurbita pepo*, *Cucurbits Genetics Cooperative Report* 21, pp. 51-53
- Andres, T.C. 1995, Complexities in the infraspecific nomenclature of the *Cucurbita pepo* complex, *Acta Horticulturae* 413, pp 65-91
- Tapley, W.T., Enzie, W.D., Eseltine, G.P. van, 1937, *The Vegetables of New York*, New York State Agricultural Experiment Station
- Several editions of seed catalogues from different companies.

[End of document]

